Prof. Hanna Dodiuk

CURRICULUM VITAE

1. PERSONAL DETAILS

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2. HIGHER EDUCATION

Undergraduate and Graduate Studies

Period of Study	Name of Institution and Department	Degree	Year of Approval of Degree
1967-1970	Tel-Aviv University Israel Chemistry	B.Sc.	1970
1970-1972	Tel-Aviv University Israel Physical Organic Chemistry (with Distinction)	M.Sc.	1973
1977	Tel-Aviv University Israel Physical Organic Chemistry, (with Summa cum Laude)	Ph.D.	1977
1997	Haifa University Israel Business Administration Diploma (with Distinction)	B.A.	1997

3. ACADEMIC RANKS IN INSTITUTES OF HIGHER EDUCATION

Dates	***Name of Institution and Department***	***Rank/Position***
1970-1974	Tel-Aviv University Israel	Graduate Assistant
1974-1977	Tel-Aviv University Israel	Instructor
1977-1978	Tel-Aviv University Israel	Postdoctoral Research Assistant
1979	Max Planck Institute fur Biophysikalische Chemie, Gottingen, Germany.	EMBO Postdoctoral Fellow
1991-2000	Technion - Israel Institute of Technology (Polymer Chemistry, Adhesion and Adhesives).	Affiliate Associate Professor
1996-2000	Shenkar - Engineering. Design. Art. Department of Polymers & Plastics Engineering.	Affiliate Associate Professor
2000-present	Shenkar - Engineering. Design. Art. Department of Polymers & Plastics Engineering.	Full Professor
2005	New Jersey Institute of Technology, Newark, NJ, USA	Visiting Scientist
2006	New Jersey Institute of Technology, Newark, NJ, USA	Visiting Professor
2006-2019	Shenkar - Engineering. Design. Art.	Head of the Department of Polymers & Plastics Engineering.
2013	UMASS Lowell Center for High-Rate Nanomanufacturing, USA	Visiting Professor
2017-2019	University of Massachusetts Lowell, USA Plastics Engineering Department.	Invited Professor
2020-present	Shenkar - Engineering. Design. Art.	Head of Graduate Studies –Polymers Materials Engineering

SCHOLARLY POSITIONS AND ACTIVITIES OUTSIDE THE INSTITUTION

1979-1981 System Engineer, Israel Ministry of Defense.

1981-1985 Head of "Adhesion and Polymer Testing" Group, part of the Materials and Processes Department at the Armament Development Authority (ADA), Ministry of Defense (MOD), Israel.

1985-1991 Head of Adhesion and Encapsulation Section, RAFAEL(35 people).

1991-1997 Head of Materials and Processes Department, RAFAEL. (205 people).

1997-present Consultant for industry and high-tech companies.

2014-present Higher Education Ranking Committee for Professors.

2017-present A member in the Higher Education Committee.

4. PARTICIPATION IN SCHOLARLY CONFERENCES

a. Active participation

Date	Name of Conference	Place of Conference	Subject of Lecture/Discussion	Role
1972	Israel Chemical Society and Israel Institute of Chemical Engineers, 42nd Annual Meeting	Israel	The synthesis and properties of heterofulvenes	Lecturer
1976	Gordon Conference on Electron-Donor-Acceptor Systems, Breuster Academy, Welfoboro.	New Hampshire, USA	Fluorescence of 2-N-Arylamino-6-Napthalenesulfonates in glycerol	Lecturer
1976	Tel Aviv-Heidelberg Joint Organic Chemistry Symposium	Israel	Multiple fluorescence from the excited state of 2-N-Arylamino-6-Napthalenesulfonates	Lecturer
1977	XIII European Congress on Molecular Spectroscopy	Wroclaw, Poland	Comparison of the fluorescent probes: 8-N-Arylamino-1-Napthalenesulfonates and 6-N-Arylamino-2-Napthalenesulfonates	Lecturer

1979	New Electronic Donor-Acceptor Systems, 46th Meeting of the Israel Chemical Society	Israel	Photophysical properties of syn- and anti-9, 10-dioxabimanes	Lecturer
1979	46th Meeting of the Israel Chemical Society	Jerusalem, Israel	Synthesis and properties of a new class of heterocyclic compounds; 1,5-Diazabicyclo-[3,3,0] Octadiene-Mono and Dithiones	Lecturer
1978	New Electron Donor-Acceptor Systems, Gordon Research Conference on Electron Donor-Acceptor	, New Hampshire, USA	Photophysical properties of syn- and anti-9, 10-Dioxabimanes	Lecturer
1979	1st European Symposium on Organic Chemistry	Cologne, Germany	Photochemical and thermal rearrangements of syn- and anti-dioxabimanes	Lecturer
1981	10th International Conference on Photochemistry	Crete, Greece	Mechanism of photo arrangement of 9,10-dioxa-antibimanes	Lecturer
1977	Second German-Israel Minerva Symposium on chemistry on Chemical and Physical Properties of Systems with Oriented Molecules	Safad, Israel	The Apolyoglobin-Arylaminoaphthaleneaulfonate systems: Insights into fluorescent behavior	Lecturer
1983	The 19th Congress of Chemical Engineering	Haifa, Israel	The effect of humidity on epoxy structural adhesives	Lecturer
1984	Proceedings of the 9th International Congress on Metallic Corrosion	Toronto, Canada.	Surface characterization of oxidized Al-1100	Lecturer
1984	Second Israeli Materials Engineering Conference	Tel Aviv, Israel	Fracture toughness of adhesively bonded joints	Lecturer
1984	Second Israeli Materials Engineering Conference	Tel Aviv, Israel	Durability of structural adhesive joints	Lecturer
1984	The International Adhesion Conference	Nottingham, U.K	reconditioning of epoxy film adhesives for bond strength improvement	Lecturer

1984	In a conference "The Use of Adhesives in Industry"	Tel Aviv, Israel	Durability of adhesive bonded joints	Lecturer
1984	2nd International Conference on Fouling and Cleaning in Food Processing (ICFCFP)	Madison, Wisconsin, USA	Cleanliness characterization by wettability methods	Lecturer
1985	Proceedings of the 3rd Israel Material Engineering Conference	Israel	Room temperature curing epoxy formulations for elevated temperature service	-
1985	Proceedings of the 3rd Israel Material Engineering Conference	Haifa, Israel.	Bulk characterization of structural adhesives following aging during storage	Lecturer
1985	Advanced Technologies in Polymers and Plastics	Tel Aviv, Israel	Development in adhesives and bonding	Lecturer
1987	1987 International Meeting of the Adhesion Society	Williamsburg , Virginia, USA.	Room Temperature Curing Epoxy Adhesives for Elevated Temperature Service	Lecturer
1987	32nd International SAMPE Symposium	Anaheim, California		Lecturer
1987	Adhesion Science Review	Blacksburg, Virginia, USA		Lecturer
1987	Polytechnic University	New York, Brooklyn, USA	Thermal Analysis and Viscoelastic Properties of Polymers	Lecturer
1987	IUPAC International Symposium on Polymers for Advanced Technologies	Jerusalem, Israel	Polyurethane Adhesives with Silane Coupling Agents	Lecturer
1987	Eastern Analytic Symposium	New York, USA	Studies of the transitions involved in the production of graphite fibers polyacrylonitrile (PAN) fibers by diffuse reflectance spectroscopy	Lecturer
1988	6th International Conference on Surface and Colloid Science	Hakone, Japan.	The role of interface in polymer adhesion to aluminum alloy	Lecturer
1988	The 4th Conference of the Israeli Chemical Engineering Society	Tel Aviv, Israel	Viscoelastic properties of structural adhesives	Lecturer

1988	The Fourth Israel Materials Engineering Conference	Beer Sheva, Israel.	Transmission and mechanical properties of optical adhesives	Lecturer
1988	The Fourth Israel Materials Engineering Conference Workshop & Second MC Meeting	Beer Sheva, Israel.	Chromic acid anodization of titanium alloy Ti-Al-4V for adhesive bonding	Lecturer
1989	30th April	Shfaym, Israel	Adhesion - Theory and Practice in the Metallurgical Society Conference	Lecturer
1989	The 19th Conference of the Israel Society for Polymer and Plastics	Haifa, Israel.	Plasma treatments for improved adhesion	Lecturer
1990	The Israeli Thermal Analysis Society Conference	Tel Aviv, Israel	Aging of polyurethanes by thermo-gravimetrical analysis compared to other methods	Lecturer
1990	Networks 90	Jerusalem, Israel	Composition-properties-network microstructure. Relationships of modified epoxy formulations	Lecturer
1990	Adhesion 90	Cambridge, U.K	Laser pre-adhesion surface treatment for polymeric adherends	Lecturer
1989	International Conference on Adhesion and surface Analysis	Leictershire, U.K	Characterization of epoxy-steel interface	Lecturer
1990	The Fifth Israeli Materials Engineering Conference		Pre-adhesion laser surface treatment polyetherimide and polycarbonate substrates	Lecturer
1991	International Symposium		Room temperature curing epoxy and their elevated temperature properties	Lecturer
1991	The 32nd Israeli Annual Conference on Astronautics and Aviation		Epoxy adhesives for field repair of composite structures	Lecturer
1991	31st December	Tel Aviv, Israel.	The role of interfaces in polymeric adhesive joints and composites	Lecturer
1991	Conference of the Israel Society of Plastics and Polymers	Tel Aviv, Israel.	Room temperature curing epoxy for elevated temperature service	Lecturer

1992	Conference of the Israel Society of Plastics and Polymers	Tel Aviv, Israel.	Chemistry, optical and mechanical properties of UV curable adhesives	Lecturer
1992	6th International Symposium on Structural Adhesive Bonding	New Jersey, US	Durability of structural epoxy film adhesives	Lecturer
1992	6th International Symposium on Structural Adhesive Bonding	New Jersey, US	Epoxy adhesives for repair of aluminum and composites structures	Lecturer
1993	International Conference on Advanced Composites	Australia	Epoxy adhesives for repair of graphite/epoxy composites	Lecturer
1992	In International Conference on Microphenomena in Advanced Composites	Herzlia, Israel	Elevated temperature composites containing low temperature curing epoxies	Lecturer
1992	In International Conference on Microphenomena in Advanced Composites	Herzlia, Israel	ABTN modifies epoxy systems for filament winding	Lecturer
1992	In International Conference on Microphenomena in Advanced Composites	Herzlia, Israel	Enhanced interfacial adhesion of epoxy to polyethylene fibers through surface modification	Lecturer
1992	Israel-Denmark Joint Prospects in Quality Engineering	Haifa, Israel	Bond strength measurements by UT	Lecturer
1991	The Euro-Asian Interfinish Conference		Excimer laser surface treatment of sealed anodized aluminum	Lecturer
1992	Interfinish 92	Brazil	Laser surface treatment of anodic layers on Al alloys	Lecturer
1993	Advanced Composites 93, International Conference on advanced Composites	Australia	Pre-adhesion surface laser treatment of composites, polymer and metal adherends	invited lecture
1993	Polymers for the 21st Century	Honolulu, Hawaii	Evaluation of pre-adhesion surface treatment for fiber reinforced PEEK	Lecturer

1992	SAMPE Conference	Toronto, Canada	The effect of surface preparation on the performance of acrylic adhesive joints	Lecturer
1993	Gordon Research Conference on Science of Adhesion	New Hampshire, USA		invited chairman
1993	The Society of Polymers and Plastics in Israel		Composition - properties-network microstructure relationship of rubber modified epoxy formulations	Invited lecture
1993	ACS Conference	Chicago, USA	Tapered and parallel adhesive joints - numerical and experimental analysis	Lecturer
1993	PAT (Polymers for Advanced Technologies) Conference	Oxford, U.K	Properties/microstructure of low temperature curing toughened epoxy compositions	Lecturer
1993	International Symposium on Polymer Surface Modification Relevance to Adhesion	Las Vegas, Nevada, USA	Laser induced adhesion strength of polymers composite and metal alloys	Lecturer
1993	Seminar on the subject of Composites	Tel Aviv, Israel	Epoxy compositions for filament wound pressure vessels	Invited lecture
1993	Seminar on the subject of Composites	Tel Aviv, Israel	Environmental resistance of reinforced PEEK	Lecturer
1994	AFML	Dayton, Ohio, USA	Aircraft battle damage repair workshop	Invited lecture
1994	Gordon Conference on Science of Adhesion	New Hampshire, USA	Advanced multipurpose dental adhesive system	Lecturer
1994	The 6th Israeli Conference on Surface and Colloid Science	Zichron Yaakov, Israel	Pre-adhesion laser surface treatment of carbon fiber reinforced composite PEEK	Lecturer
1994	Mediterranean Network Conference	Naples, Italy	The concurrent research and engineering for joint venture with universities	Invited lecture
1995	ICAST 95-International Conference on Adhesion Science and Technology	Amsterdam, Holland	UV treatment of surfaces with excimer lasers	Lecturer

1995	SPE Conference Proceedings	Boston, USA	Pre-adhesion laser surface treatment of carbon fiber reinforced PEEK composite	Lecturer
1994	Polymers and Plastic Society with the Israeli Section of SPE, 23rd Annual Conference	Tel Aviv, Israel	Pre-adhesion treatment by laser irradiation of polymeric, metallic and composite substrate	Lecturer
1993	J. Dental Res., 72, 775, Abs. N45		High Q-bond plus, new fourth generation multipurpose bonding cementing and covering system	Lecturer
1995	Dental Innovations 95	Tel Aviv, Israel	High Q-bond plus, new fourth generation multipurpose bonding cementing and covering system	Lecturer
1995	Dental Innovations 95	Tel Aviv, Israel	The influence of long-term water storage on the durability of the shear bond strength of new adhesive systems to fresh amalgam	Lecturer
1995	Second International Conference on Composites Engineering	New Orleans, USA	Space grade adhesive behavior of hypervelocity impacts	Lecturer
1996	The Adhesion Society 19th Annual Meeting		Pre-adhesion surface treatment of composites using excimer laser	Lecturer
1996	EURADH '96 (Adhesion '96)	Cambridge, UK	UV treatment of surfaces with excimer laser and UV lamps	Lecturer
1996	The First Meeting of the Israeli Materials Society		Surface modification of laser treatment of composite adherend	Lecturer
1995	The Israeli Polymer and Plastic Society	Tel Aviv, Israel	Composite materials for marine applications based on vinyl ester resins	Lecturer
1996	SPE -ANTEC 96	Indianapolis, USA	Fatigue of adhesives bonded thermoplastics	Lecturer
1996	International Conference on Environmental Impact of Polymeric Materials	Tel Aviv, Israel	Advanced multipurpose dental adhesive system	Lecturer
1996	Gordon Conference	USA	Advanced multipurpose dental adhesive system	Lecturer

1997	Adhesion Society	South Carolina, USA	Modification of Surfaces by Excimer Laser Treatment	Lecturer
1997	Contribution in the memory of Professor Katz		Adhesives for biomedical applications	Lecturer
1997	Polymers for Advanced Technology 97	Liepzig, Germany	Laser induced reaction for pre-bond surface treatment of polymer and composites	Invited paper
1998	15th European Chemistry of Interfaces Conference (ECIC)	Jerusalem, Israel	New hybrid restorative dental materials	Lecturer
1998	1st World Congress on Adhesion and Related Phenomena	Garmisch-Partenkirchen, Germany	Microstructure characterization of Laser Treated Surfaces	Lecturer
1999	Adhesion 99	Cambridge, UK	Microwave curing of polyurethane adhesives	Lecturer
1999	The Israel Materials Engineering Conference (IMEC-9) and the Israeli Polymers and Plastics Society	Haifa - Israel	Microwave curing of polyurethane	Lecturer
1999	The European Materials Conf. (E-MRS)	Strasburg, France	Prebonding Technology Based on Excimer Laser Surface Treatment	Lecturer
2000	Proc. 23rd Annual meeting of the Adhesion Society	USA		Lecturer
2000		New-Orleans USA	New Hybrid Restorative Dental Materials Proceeding of “Dental Implants Treatments"	Lecturer
2000		Jerusalem, Israel	Trend in Materials Development	Lecturer
2001	The 24th Annual meeting of the Adhesion Society	Williamsburg VA. USA	Hyperbranched polyamidoamines-Epoxy Adhesives and Primers	Lecturer
2001	PAT 2001	Eilat, Israel	Tailoring New Dendritic Architecture for Thermoset Adhesives	Lecturer
2001	PAT 2001	Eilat, Israel	Tissue Bio-adhesives based on Algal Extract	Lecturer
2001	The 30th Annual Conference of Israel Polymer and Plastic Society	Tel-Aviv, Israel	Algal biopolymers: properties and applications	Lecturer

2001	Marine Biotechnology Conference	Haifa, Israel	Algal biopolymers for biomedical applications	Lecturer
2002	25th Adh. Soc. Meeting and WCARP-II	Orlando, USA	Novel Dental Composites based on Hyperbranched and Dendritic Polymers	Lecturer
2002	25th Adh. Soc. Meeting and WCAR P-II	Orlando, USA	Novel Highly Branched Crosslinking Agents for Adhesives	Lecturer
2002	31th meeting of the Israeli Polymers and Plastics Society	Rehovot, Israel	Advanced Applications of Hyperbranched Polymers in Thermoset systems	Lecturer
2002	31th Meeting of the Israeli Polymers and Plastics Society	Rehovot, Israel	Development of skin surface model as an adherent for adhesion to skin testing	Lecturer
2003	Dental Research, Volume. 82, Issue	Goteborg, Sweden	Evaluation of Hyperbranched Polymers Effect on Dental Composite Properties	Lecturer
2004	The 32nd meeting of the Israel Polymers and Plastics Society	Haifa, Israel	Drug Delivery Applications of Algal Bio-adhesives	Lecturer
2003	BMMD 2003 and the 11th Israel Materials Engineering Conference	Haifa, Israel	Etching Primers for Dental Application	Lecturer
2003	The 11th Israel Materials Engineering Conference	Haifa, Israel	Algal Bio-adhesives: Applications of Nature's Underwater Adhesives	Lecturer
2003	The Adhesion Society Meeting	Wilmington, N. Carolina, USA	Novel Adhesion Promoters Based on Hyper-Branched Polymers	Lecturer
2004	PPS-20	Akron, Ohio	Nano Tailoring of Structural Adhesives	Lecturer
2004	7th European Adhesion Conference – EURADH	Freiburg, Germany	Nano Tailoring of Epoxy Adhesives by Functionalized Nanoclays	Lecturer
2005	The adhesion Society meeting	Alabama, USA	Novel Adhesion Promoters Based on Hyper-Branched Polymers	Lecturer

2005	The adhesion Society meeting	Alabama, USA	Nano Tailoring of Elevated Temperature Cured Epoxy Adhesives by Grafted Caged Silica (POSS)	Lecturer
2005	The Adhesion Society Meeting	Alabama, USA	The Effect of Grafted Caged Silica (POSS) on the properties of Dental Composites and Adhesives	Lecturer
2004	Keynote Lecture in the 83rd IADR,34th Annual Meeting of AADR, 29th Annual Meeting of the CADR	Baltimore, USA	Novel Dental Composites &Adhesives based on Nanotechnology	Invited lecture
2005	The Adhesion Society Meeting	Alabama, USA	Nano Composites of Epoxy Adhesive Filled with Clay, Nanotubes and Fullerenes	Lecturer
2006	The 3rd World Congress on Adhesion and related Phenomena	Beijing, China	The Effect of Nanostructured and Composition on the Hydrophobic Properties of Solid Surfaces	Invited and chairman
2006	The 26th Meeting of the Adhesion Society	Florida, USA	Nano Tailoring of Polyurethane Adhesive by Polyhedral Oligomeric Silsesquioxane (POSS)	Lecturer
2006	Israel Polymers &Plastics Society Meeting	Herzelia, Israel	Application of Nanotechnology for Advanced Dental Adhesives and Composites	Lecturer
2005	The 2nd International Conference on Fillers for Polymers	Cologne Germany	Nano Fillers For Enhancement of Mechanical and Thermal Performance of Adhesives	Lecturer
2006	The 84th IADR,1st Meeting of the Pan-Asian-Pacific Federation	Brisbane, Australia	Nanotailoring of Dental Formulations by Dendrimers, Nanoparticles and Nanofibers	Lecturer

2006	The 84th IADR,1st Meeting of the Pan-Asian-Pacific Federation	Brisbane, Australia	Dual Cure Core Compatibility to DBA using Self- Cure and Self-Etching Activators	Lecturer
2006	The 3rd World Congress on Adhesion and related Phenomena	Beijing, China	Interdisciplinary Aspects in Adhesion Technology and Nanotechnology	Invited and chairman
2006	The Israel Polymers &Plastics Society 35th Meeting	Herzelia, Israel	Transparent Self-cleaning surfaces	Lecturer
2007	The 30th Annual Adhesion Society Meeting	Florida, USA	Polyurethane Adhesive Containing Functionalized Nanoclays	Lecturer
2007	PPS-23 Polymer Processing Society 23rd Annual	Salvador, Brazil	Nano and Micro Morphology Development for Ultrahydrophobic Polymer Surface	Lecturer
2007	Nanopolymer 2007, RAPRA Conferences	Berlin, Germany	The Use of Nano Particles for Hydrophobic and Self Cleaning Coatings	Lecturer
2008	ANTEC 2008	New Orleans, USA	Butyrate (PHB) In Melt Extrusion, Part 1: Poly-Oligomeric-Thermal Stabilization Of Biodegradable Poly-Hydroxy-Silsesquioxane (POSS)	Lecturer
2009	Hybrid Materials	Tours, France	Bio-inspired ultrahydrophobic and Self- Cleaning Coatings	Lecturer
2009	Adhesion, Science of	New London, NH, USA	Nano Enhanced Toughness of Epoxy Adhesives	Lecturer
2009	The European Coating Conference	Berlin, Germany	Super Hydrophobic and Self- Cleaning Coatings	Lecturer
2009	PAT 2009	Jerusalem, Israel	The Relationship Between Water Wetting and Ice Adhesion-Surface Nanostructuring for Ice Repellency	Lecturer
2009	PAT 2009	Jerusalem, Israel	Thermal Stabilization and Enhanced Processability	Lecturer

			of Biodegradable Polymers	
2009	IMEC- The 14th Israel Materials Engineering Conference	Tel-Aviv, Israel	Fabrication of Nano-Composites Reinforced by Diphenylalanine Peptide Nanotubes	Lecturer
2009	PAT 2009	Tel-Aviv, Israel	The Effect of Modified Tungsten Sulfide Fullerene-Like Nanoparticles on the Toughness	Lecturer
2009	The 28th IVS Annual Conference and Technical Workshop	Tel-Aviv, Israel	The Effect of Modified Tungsten Sulfide Fullerene-Like Nanoparticles on the Toughness	Lecturer
2010	PPS(POLYMER PROCESSING SOCIETY) Conference	Banff ,Canada	Thermal Stabilization & Enhanced Processability of Biodegradable Polymers	Lecturer
2010	ACS Symposium in honor of Dr Kash Mittal at '240th ACS National Meeting	Boston, USA	The effect of nanostructure and composition of solid surfaces on ice adhesion	invited paper
2010	WCARP-4	Arcachon, France	Toughening of adhesives by Nanoparticles	Lecturer
2010	The Israel Polymers &Plastics Society 39th Meeting	Tel-Aviv, Israel	The Effect of Modified Tungsten Disulfide Fullerene-Like on the Toughness of Epoxy Resins	Lecturer
2010	NanoIsrael	Tel-Aviv, Israel	The Effect of Modified Tungsten Disulfide Fullerene-Like on the Toughness of Epoxy Resins	Lecturer
2010	The 6th international conference	Tel-Aviv, Israel	Nanocomposite Adhesives Based on Peptide Nanotubes	Lecturer
2011	PPS-27	Marrakesh, Morocco	Nano Enhanced Reactive Polymers	Lecturer
2011	ANTEC 2011	Boston, USA	Biobased pressure-sensitive adhesives/Gluten based PSA	Lecturer

2011	EUROTEC™ 2011	Barcelona, Spain	Bisphenol-A Free Alternative for Dental Polymer Composites	Lecturer
2011	Nanocomposites	Paris, France.	The Effect of Fullerene-like Tungsten Disulfide and Carbon Nanotubes on The Mechanical Properties of Epoxy Adhesives	Lecturer
2011	The Israel Polymers &Plastics Society 40th Meeting	Tel-Aviv, Israel.	The Effect of Fullerene-like Tungsten Disulfide and Carbon Nanotubes on The Mechanical Properties of Epoxy Adhesives	Lecturer
2011	The Israel Polymers &Plastics Society 40th Meeting	Tel-Aviv, Israel	Bisphenol-A Free Alternative for Dental Polymer Composites	Lecturer
2012	The Israeli chemistry society meeting	Tel-Aviv, Israel	Bisphenol-A Free Alternative for Dental Polymer Composites	Lecturer
2012	The Israeli chemistry society meeting	Tel-Aviv, Israel	The Effect of Fullerene-like Tungsten Disulfide and Carbon Nanotubes on The Mechanical Properties of Epoxy Adhesives	Lecturer
2012	NanoIsrael 2012	Tel-Aviv, Israel	Influence of Inorganic WS_2 Nanoparticles on the Tribological Properties of Epoxy Resin	Lecturer
2012	NANO2012	Rhodes, Greece	Nanoenhanced nodule morphology and Properties of Epoxy adhesives	Lecturer
2012	IADR/PER Congress	Tel-Aviv, Israel	Bisphenol-A Free Alternative for Dental Polymer Composites	Lecturer

2012	Euradh 2012	Fridrichshafe n, Germany	Nanoenhanced nodule morphology and Properties of Epoxy adhesives	Lecturer
2013	PPS-29	Nurnberg Germany	Nano enhanced nodule morphology and properties of epoxy adhesives	Lecturer
2013	PPS-29	Nurnberg Germany	Novel Melt Processable Compatibilizers for Carbon Nanotubes Polymer nanocomposites	Lecturer
2013	Destination Nano	UMASS Lowell, USA	Nano enhanced nodule morphology and Properties of Epoxy adhesives	Lecturer
2013	Destination Nano	UMASS Lowell, USA	Novel Melt Processable Compatibilizers for Carbon Nanotubes Polymer nanocomposites	Lecturer
2013	Israeli Polymer & Plastics Society	Ramat Gan Israel.	UV-Photoreactive Silica Nanoparticles for Durable Superhydrophobic Surfaces	Lecturer
2013	Israeli Polymer & Plastics Society December	Ramat Gan Israel.	The Effect of Multiwall Carbon Nanotubes on the Properties of Room Temperature Vulcanized Silicone Adhesives	Lecturer
2014	IADR/ Congress	Cape Town, South Africa	Bisphenol-A Free Alternative for Dental Polymer based Materials	Lecturer
2014	PPS-30	Cleveland, USA	UV Photoreactive Silica Nanoparticles for Durable Superhydrophobic Surfaces	Lecturer
2014	Nanotech 2014	Washington USA	Superhydrophobic Durable Coating for Iceophobic application	Lecturer
2014	IADR/ Congress	Cape Town, South Africa	Bisphenol-A free alternatives for Dental Polymer-Based Material	Lecturer
2014	Congress 2014	Dubrovnik, Croatia	Cements adhesion to ceramic as a function of surface treatment	Lecturer

2014	PPS 2014	Tel-Aviv, Israel	Bisphenol-A free alternatives for Dental Polymer-Based Materials	Lecturer
2014	PPS 2014	Tel-Aviv, Israel	Novel Super Hydrophobic Durable Nanocomposite Coatings for Reduction of Ice Adhesion	Lecturer
2014	PPS 2014	Tel-Aviv, Israel	The Effect of Tungsten Disulphide Nanotubes on the Properties of Polyurethane adhesives	Lecturer
2015	Nanotech 2015	Washington USA	Superhydrophobic Durable Coating for Iceophobic application	Lecturer
2015	PPS 31	Jeju Island , South Korea June	The Effect of Tungsten Disulphide Nanotubes and Multiwall carbon Nanotubes on the Properties of Silicone Adhesives	Lecturer
2014	Nanoisrael	Tel-Aviv, Israel	Nanomanufacturing for Superhydrophobic/Icephobic Coatings	Poster
2016	Nanoisrael	Tel-Aviv, Israel	Can Inorganic Nanotubes Replace Carbon?	Lecturer
2016	TechConnect World Innovation Conference	Washington, USA	Durable Superhydrophobic Coating	Lecturer
2017	TechConnect World Innovation Conference	Washington, USA	Durable Superhydrophobic Coating	Student
2017	PPS 32	Dresden, Germany	Superhydrophobic Durable Coating for Iceophobic application	Lecturer
2017	ANTEC 2017	Anaheim, Los Angeles, USA	Novel Super Hydrophobic Durable Nanocomposite Coatings for Reduction of Ice Adhesion	Lecturer
2017	PPS 33	Cancun Mexico	Superhydrophobic Durable Coating for Icephobic application	Invite Lecturer
2018	PPS-Americas	Boston MA	The Nano way-from Adhesion to Deadhesion Regional conference	Invite and Keynote Lecturer

2018	PPS-Americas	Boston MA	"Braided Structure for Strechable Conductive Electronics Materials".	Poster Student
2019	PPS - 35	Cesme Turkey	"The Effect of Brominated Epoxy on The Properties of Epoxy / Phenolic blends".	Keynote Lecturer
2019	93rd ACS Colloid & Surface science Symposium,	Atlanta, Georgia USA	"The effect of particle loading on Wenzel state/Cassie-Baxter state transition for nanocomposite superhydrophobic coatings.	Lecturer
2019	ACS National Conference	San Diego, California USA.	Relationship between Surface Topography and Ice Adhesion on Superhydrophobic Surfaces	Lecturer

b. <u>Organization of conferences and Sessions</u>

Date	Name of Conference	Place of Conference	Role
1987	10th Annual Meeting of the Adhesion Society,	Williamsburg, Virginia, USA	Head of session
1987	IUPAC International Symposium on Polymers for Advanced Technology	Jerusalem, Israel	Chairperson
1994	Seventh Israeli Materials and Engineering Conference	Haifa, Israel	Member of organizing committee

1995	International Conference on Adhesion Science and Technology (ICAST 95)	Amsterdam, Holland	Member of Advisory Committee and Chairman
1995-1998	National Committee for Advanced Materials and Processes, nominated by the Ministry of Science (MOS).	Israel	Member of the National Committee
1996	International Conference on Composite Interfaces	Zircon Yaakov, Israel	Member of Advisory Committee and Chairman
1996-1998	Israel-German Steering Committee, nominated by the Ministry of Science (MOS).	Germany	Member of the Israel-German Steering Committee
1996-1998	Israel-German Evaluation Committee, nominated by the Ministry of Science (MOS).	Germany	Member of the Israel-German Evaluation Committee
1996-1998	European Commission for Materials and Industrial Technologies Program (Brite-Euram), nominated by the Ministry of Commerce and Industry	Brussel, Belgium	Israeli Representative in the European Commission
1998	Meetings of the Israel Polymers and Plastics Society	Ramat Gan, Israel	Head of organizing committee and chairman
1998	AGIL Conference	Ramat Gan, Israel	Head of organizing committee and chairman
1999	Israeli Materials Engineering Conference (IMEC-9),	Haifa – Israel	Scientific Committee

1999	28th Annual Israel Polymers and Plastics Conference	Haifa – Israel	Organizing and Scientific Committee
1999	PAT 2001 (Polymers for Advanced Technology)	Jerusalem, Israel	Head of organizing committee
1999-2004	Israel Polymers and Plastics Conferences.	Israel	Head of organizing committee
2004	PPS-20	Akron, Ohio, USA.	Head of session
2005	Adhesion Society Meeting	Alabama, USA	Head of session
2010	Special Symposium on Recent Advances in Adhesion Science and Technology	Boston, MA, USA	Member of organizing committee
2014	PPS 2014	Israel	Member of organizing committee
2017	2018 America Regional PPS	Boston MA, USA	Member of Organizing Committee

5. SCHOLARSHIP, AWARDS AND PRIZES

1970-1971 Distinction in studies, Tel-Aviv University, Tel-Aviv, Israel.

1971-1972 Distinction in studies, Tel-Aviv University, Tel-Aviv, Israel.

1972-1973 Distinction in studies, Tel-Aviv University, Tel-Aviv, Israel.

1974-1975 Distinction in studies, Tel-Aviv University, Tel-Aviv, Israel.

1976-1977	Distinction in studies, Tel-Aviv University, Tel-Aviv, Israel.
1978	Bat-Sheva Grant.
1979	EMBO Fellowship (short term), Gottingen, Germany.
1984	"The Women in Technology", Israel.
1998	The Lady Globs award for distinguished women in Industry", Israel.
2011	The Francis Shenkar Awards, Shenkar College, Israel.
2013	Honorary fellow of the Israel Polymer and Plastics Society
2017	Invited Professor of Plastics Engineering for Sustained and Meritorious Contribution to the Programs and Discipline of UML

6. TEACHING/ ACADEMIC EXPERIENCE 1994-present

Courses taught in recent years

Name of Course	Type of Course	Degree	Number of Students
Polymer chemistry	Lecture	B.Sc.	30-40
Adhesion science and Technology	Lecture	M.Sc.	30-40
Organic Chemistry	Lecture	B.Sc.	30-40
Thermoset polymers	Lecture	B.Sc.	30-40
Introduction to Plastics Engineering	Lecture	B.Sc.	30-40
Characterization methods for polymers	Lecture	B.Sc.	30-40
Polymer chemistry-Advanced chapters	Lecture	M.Sc.	20-30
Advanced Application of polymers	Lecture	M.Sc.	10-20
variety courses in Technicon, RAFAEL and continuing education in Adhesion and Adhesives, Interfaces, Polymer chemistry etc.	Lecture		30-200

7. PROFESSIONAL EXPERIENCE

1979	Israel Chemical Society.
1977	Inter-American Photochemical Society.
1980-1987	Adhesion Society, American Chemical Society, Polymer Chemistry.
1986	Society for the Advancement of Material and Processing Engineering (SAMPE)
1988-1991	Treasurer of the Israel Polymers and Plastics Society.
1991-present	The Israel Polymer and Plastics Society Board.
1992-present	Society for Plastics Engineering. The Adhesion Society. Israel Society of Polymers and Plastics. The New York Academy of Science.
1990-2010	Editorial board of "journal of Adhesion Science and Technology"
2010-present	Editorial board of Review of Adhesion and Adhesives "
1998-2000	The President of the Israel Polymer and Plastics Society.
1998-2000	The Israeli representative in the Scientific Committee of the Polymer Characterization Society (Polychar)
1998-2000	The Israel Materials Society advisory Board (AGIL)
2010-present	The American Chemical Society
2020	Editorial boards of "Polymers"

8. FIELDS OF ACTIVITY

General

Managing Director of Materials and Processes Department in Rafael including business development, marketing - local and international (25 M$), research and development strategies, policy making of research, development, production, finance and marketing. Planning and organization of laboratories, drawing up proposals, supervision of staff of 205 professionals and technicians. (1991-1997)

Professional

Polymer Characterization

Investigations of chemical, physical and mechanical properties of thermosetting resins used in high performance aerospace systems (structural adhesives and composites). Developed and authored materials specifications for qualifying thermoset resins (epoxy and hardeners, polyurethanes, polysulfides, RTV's silicone rubber, etc.).

Nanotechnology

Hyperbranched and dendritic polymers incorporated in thermosetting polymers, nanoparticle (organic/inorganic) as fullerenes, POSS or nanoclays incorporated into thermoset adhesives and composites and related nanotechnology phenomena.
Functional coatings Ultra Hydrophobic surfaces, self-cleaning and ice repellent surface, Ultra Hydrophilic surfaces, antifog, anti-fouling etc.

Biopolymers

Biomaterials especially adhesives and coatings for bio related functions, bone glue, dental adhesives, HIP PU coatings, stents coatings, implant etc.

Surface and Interface Analysis

Investigation of chemical and physical properties of surfaces and interfaces and their correlation with adhesive mechanical properties and structural property, using spectroscopic characterization by FTIR, Auger and ESCA and AFM techniques.
Study of wetting behavior, surface energetic and modifications by monolayers coatings.

Adhesion and Adhesives

Processes and technology of adhesion for various adhesive systems, (aerospace, medical electronic applications etc.); including selection and evaluation of surface treatments for adherents, material selection and formulation, testing of adhesives bonded joints.

Aging of Polymers

Studies on the effects of moisture/temperature and mechanical loads on adhesives and composites during storage and/or service life- durability.

Research projects and ongoing research

Supervised variety of R&D projects in RAFAEL Materials and Processes Department from 1979 to 1998, in HPM/STADCO Company, USA (1997 - 2007), Nanomotion, Ambient and BJM Labs, Bayer-AG, Leverkusen, Germany (1999 - 2010),and Shenkar College ,the Polymers and plastics Engineering Department(1997-present).

1. Microwave processing of polymers (HPM Company) in cooperation with JPL (Jet (Jet Propulsion Laboratory), NASA, Pasadena, USA
2. Microwave curing of thermosets (RAFAEL).
3. Aging of thermoplastics and thermosets (RAFAEL in cooperation with the Technion, Materials and Chemical Engineering Departments).
4. Adhesion and adhesives (RAFAEL).

5. Toughening of polyesters and epoxies (RAFAEL and Technion).
6. Interfaces in adhesive bonding and composites (RAFAEL).
7. Laser surface treatment of metals, polymers and ceramics (RAFAEL with the Metal Institute in The Technion).
8. Laser surface treatment of composites (RAFAEL with the Metal Institute in the Technion).
9. Bonding and fatigue study of advanced piezoelectric small motors (Nananomotion Company with the Technion).
10. Development of advanced packaging polymers for smart cards (Ambient Company).
11. Development of advanced adhesives and composites for dental use (B.J.M Laboratories). Tailoring new Dendritic Architecture for thermoset adhesives (PU, Epoxy, dental etc.). Nanotailoring of Thermosetting Adhesives using Nanofillers (POSS, NANOCLAYS)
12. Development of adhesives for bones and implants (Vatech-Bio) , development of coating for advanced stents (Allium) and shell PU coating for hip replacement (Impliant).
13. Ultrahydrophobic and self-cleaning surfaces (Palram) and ice repellent surfaces (Ministry of Defense, Mafat etc.)
14. Formulations of nanoparticles (nanotubes, Inorganic Fullerenes, Nanoclays, POSS etc. in thermosets (epoxy, polyurethanes, phenolic acrylates etc) and characterizations of the nano adhesives and nanocomposites.

    Development of adhesives and composite based on renewable sources and green technology and raw materials.
15. Supervisor and Co-adviser to 25 M.Sc. and 10 Ph.D. graduate students in the academia (Technion, Shenkar, Tel-Aviv University Weizmann Institute, Israel, New Jersey Institute of Technology. UMass Lowell, USA etc.)

PUBLICATIONS

A. Dissertations

1. M.Sc. Thesis: "Synthesis and Investigation of the Thermal Isomerization of Heterofulvene Systems". Department of Chemistry, Tel Aviv University, Ramat Aviv, Israel, 1972.
2. Ph.D. Thesis: "Studies on the Excited states Behavior of N-Arylaminonaphthalene-sulfonates". Department of Chemistry, Tel Aviv University, Ramat Aviv, Israel, 1977.

B. Articles in Refereed Journals

1. I. Belsky, H. Dodiuk and Y. Shvo, "The synthesis and properties of heterofulvenes, derivatives of 2, 6-Dimethyl -Prone and -Thiapyrone and N-Butyl-2, 6-Dimethyl-Pyridone", J. Org. Chem., 39, 991-995, (1974).
2. I. Belsky, H. Dodiuk and Y. Shvo, "Thermal isomerization of heterofulvenes dynamic NMR study", J. Org. Chem., 42, 2734, (1977).
3. E.M. Kosower and H. Dodiuk, "Fast inter-system crossing from vibrationally excited $S_{l,np}$ states of 2-N-Arylamino-6-Napthalenesulfonates", Chem. Phys. Lett., 26, 545-548, (1974).
4. E.M. Kosower and H. Dodiuk "Fluorescence of 2-N-Arylamino-6-Naphthalenesulfonates in glycerol" J. Am. Chem. Soc., 96, 6195-6196, (1974).
5. E.M. Kosower, H. Dodiuk, K. Tanizawa, M. Ottolenghi and N. Orbach "Intramolecular donor-acceptor systems. Radiative and non-radiative Processes for the exited states of 2-N-Arylamino-6-Naphthalenesulfonates", J. Am. Chem. Soc., 97, 2167-2177, (1975).
6. H. Dodiuk and E.M. Kosower, "Multiple fluorescences from the excited state of N-Methyl-2-N-Phenylamin Naphthalenesulfonate in glycerol: fast proton transfer", Chem. Phys. Lett., 34, 253-257, (1975).
7. E.M. Kosower and H. Dodiuk, "Multiple fluorescences II. A new scheme for 4-N, N Dimethylaminobenzonitrile including proton transfer", J. Am. chem. Soc., 98, 824-929, (1976).
8. E.M. Kosower and H. Dodiuk, "Multiple fluorescences III. Methyl 2,6 Dihydroxybenzoate and Methyl Salicylate", J. Lum., 11, 249-254, (1976).
9. H. Dodiuk and E.M. Kosower, "Intramolecular donor-acceptor systems II. Substituent effects on the fluorescent probes, 2-N-Arylamino-6-Naphthalene-sulfonamides", J. Phys. Chem., 81, 50-54, (1977).
10. H. Dodiuk and E.M. Kosower, "Multiple Fluorescences IV. The protonated form of N-Alkyl-2-N-Arylamino-6-Naphthalenesulfonates" J. Am. Chem. Soc., 99, 859-866, (1977).
11. H. Dodiuk, E.M. Kosower, M. Ottlenghy and N. Orbach, "Multiple fluorescences V. Different triples from N-Methyl-2-N-Phenylamino-6-Naphthalenesulfonate and its C-protonated form by laser pulse photolysis", Chem. Phys. Lett., 49, 174, (1977).
12. E.M. Kosower, H. Dodiuk, B. Thulin and O. Wennerstrom, "On the fluorescence of propellicene", Acta Chem. Scan., B31, 526-528, (1977).

13. E.M. Kosower and H. Dodiuk, “Intramolecular donor-acceptor systems III. A third type of emitting singlet state for N-Alkyl-6-N-Arylamino-2-Naphthalenesulfonates”, J. Am. Chem. Soc., 100, 4173-4179, (1978).
14. E.M. Kosower, H. Dodiuk and H. Kanety, “Intramolecular donor-acceptor systems IV. Solvent effects on radiative and non- radiative processes for the charge transfer states of N- Arylamino naphthalene sulfonates", J. Am. Chem. Soc., 100, 4179-4188, (1978).
15. E.M. Kosower and H. Dodiuk, “Intramolecular donor-acceptor systems V. Heavy atom effects on exited state of 6-N-Arylamino-2-Naphthalenesulfonate derivatives”, J. Phys. Chem. Soc., 82, 2112-2015, (1978).
16. H. Dodiuk, H. Kanety and E.M. Kosower, “The Apaomyglobin-Arylaminonaphthalenesulfonate system: New insight into Fluorescent behavior”, Proc. of J. Luminescence, 18/19, 495-499, (1979).
17. H. Dodiuk, H. Kanety and E.M. Kosower, “The Apomyglobin-Arylaminonaphthalenesulfonate system: Insight into fluorescent Probe responses by substituent modulation”, J. Phys. Chem., 83, 515-521, (1979).
18. H. Dodiuk and E.M. Kosower, “Trapped charge-transfer states in Bis-Naphthylamine derivatives”, J. Phys. Chem., 83, 2053, (1979).
19. D. Huppert, H. Dodiuk, H. Kanety and E.M. Kosower, “Picosecond spectroscopic measurements of very fast inter-system crossing for 9, 10-Dioxa-anti-Bimanes”, Chem. Phys. Lett., 65, 164-168, (1979).
20. E.M. Kosower, B. Pazhenchevsky, H. Dodiuk, H. Kanety and D. Faust “Bimanes. 6. Reactive halogen derivatives of syn- and anti- 9,10-Dioxabimanes", J. Org. Chem., 46, 1666-1673, (1981).
21. E.M. Kosower, B. Pazhenchevsky, H. Dodiuk, M. Ben Shoshan and H. Kanety, “Bimanes. 7. Synthesis and properties of 4,6-Bridged-syn-9,10-Dioxabimanes”, J. Org. Chem., 46, 1673-1679, (1981).
22. H. Kaney, H. Dodiuk and E.M. Kosower, “Bimanes. 10. Photochemical rearrangement of 9,10-Dioxa-anti-bimanes”, J. Org. Chem., 47, 207-213, (1982).
23. E.M. Kosower, H. Kaney, H. Dodiuk and J. Hermolin, “Bimanes. 9. Solvent and substituent effects on intramolecular charge-transfer Quenching of the fluorescence of syn-9,10-Dioxabimaines”, J. Phys. Chem., 86, 1270-1277, (1982).
24. E.M. Kosower, H. Kanety and H. Dodiuk, “Bimanes. 8. Photophysical properties of syn- and anti-9,10-Dioaxabimanes”, J. Photochme., 22, 171-182, (1983).
25. E.M. Kosower, H. Kanety, H. Dodiuk, G. Striker, T. Jovin, H. Boni and D. Huppert, “Intramolecular donor-acceptor systems 7. Solvent dielectric relaxation effects on the photophysics of 6-N-Arylamino-2-Naphthalenesulfon-N, N-Dimethylamides”, J. Phys. Chem., 87, 2479-2484, (1983).
26. I.E. Klein, J. Sharon, A.E. Yaniv, H. Dodiuk and D. Katz, “Chemical interactions in the system anodized aluminum-primer adhesive” Int. J. Adhesion and Adhesives, 3, 159-162, (1983).
27. A.E. Yaniv, I.E. Klein, J. Sharon and H. Dodiuk, “Bonding of adhesive primers to aluminum substrates”, Surface and Interface Analysis, 5, 93-97, (1983).

28. H. Dodiuk, L. Drori and J. Miller, “The effect of moisture content in epoxy film adhesives on their performance: I: Lap shear strength", J. Adhesion, 17, 33-44, (1984).
29. F. Flashner, I. Zewi, H. Dodiuk and L. Drori, “Durability of structural adhesive joints”, Int. J. Adhesion and Adhesives, 4, 137-139, (1984).
30. F. Flashner, S. Kenig, I.G. Zewi and H. Dodiuk, “Fracture toughness of adhesively bonded joints”, Engineering Fracture Mechanics, 31, 987, (1985).
31. A.E. Yaniv, N. Fin, H. Dodiuk and I.E. Klein, “Oxide treatments of A1 1100 for adhesive bonding - surface characterization”, Application of Surface Science, 20, 538, (1985).
32. H. Dodiuk, L. Drori and J. Miller, “The effect of moisture content in epoxy film adhesives on their performance. II: T-peel ad 105°C lap shear strengths”, J. Adhesion., 19, 1-13, (1985).
33. H. Dodiuk, A. E. Yaniv, J. E. Klein, N. Fin and L. Drori, “Chemical interaction in the system aluminum oxide-primer-adhesive”, Application of Surface Science, 25, 137-153, (1986).
34. H. Dodiuk, L. Drori and J. Miller, “Preconditioning of epoxy film adhesive for bond strength improvement”, Int. J. Adhesion and Adhesives, 4, 169, (1985).
35. H. Dodiuk, S. Kenig and I. Liran, “Room temperature curing epoxy adhesives for elevated temperature service”, J. Adhesion, 22, 227-251, (1987).
36. H. Dodiuk, N. Fin and A.E. Yaniv, “Oxide treatments of Al-2024 for adhesive bonding surface characterization”, Applied Surface Science, 28, 11-33, (1987).
37. H. Dodiuk, N. Fin and A.E. Yaniv, “Characterization of oxidized Al-1100 exposed to hydrothermic environments”, Applied Surface Science, 29, 67-85, (1987).
38. A. Buchman, H. Dodiuk and S. Kenig, “The effect of moisture content in epoxy film adhesives on their performance III: Bulk properties", J. Adhesion, 24, 229-243, (1987).
39. A. Marmur, H. Dodiuk and D. Pesach, “The effect of contamination on adhesion strength:Wettability characterization by CSC method”,J. Adhesion, 24, 139-155, (1987).
40. H. Dodiuk, “The role of chemical bond in the interface layers of bonded joints - literature review”, Polymer of the Plastic Industry, 1, June 1986.
41. H. Dodiuk, A. Buchman and S. Kenig, “Polyurethane adhesives with silane coupling agents”, Polymers for Advanced Technologies. IUPAC International Symposium, Edited by Menachem Lewin, VCH Publishers, Inc., 1988, pp. 838-862.
42. H. Dodiuk and S. Kenig, "The effect of surface perpetration on the performance of acrylic adhesive joints”, Int. J. Adhesion and Adhesives, 159-267, August 1988.
43. S. Wasserman, M. Snir, H. Dodiuk and S. Kenig, “Transmission and mechanical properties of optical adhesives”, J. Adhesion, 27, 67-81, (1989).
44. H. Dodiuk, N. Fin, A.E. Yaniv and S. Kenig, “Interfacial haracterization of epoxy bonded maraging – steel”, J. Adhesion, 31, 191-202, (1990).
45. M. Snir, S. Wasserman, H. Dodiuk and S. Kenig, “Mechanical and optical properties of UV curable modified acrylic adhesives”, J. Adhesion, 27, 175-185, (1989).

46. G. Sharon, H. Dodiuk and S. Kenig, "Effects of loading rate and temperature on the mechanical properties of Structural adhesives containing a carrier", J. Adhesion, 31, 21-33, (1989).
47. G. Sharon, H. Dodiuk and S. Kenig, "Hygrothermal properties of epoxy film adhesives", J. Adhesion, 30, 87-104, (1989).
48. H. Dodiuk, S. Kenig and I. Liran, "Room temperature curing epoxy adhesives for elevated temperature service", Adhesion International 1987, Proceedings of the 10th Annual Meeting of The Adhesion Society, Inc. Edited by Louis H. Sharpe. Gordon and Beach Science Publishers, Switzerland, pp. 339-363, (1989).
49. E. Segal, P. Dickstein, Y. Segal, S. Kenig and H. Dodiuk, "A novel method of processing pulse echo data in adhesive bond inspection", J. Nondestructive Evaluation, 9, 257-273, (1990).
50. J. Rezek, M. Angelovich, M. Landkof, N. Fin and H. Dodiuk "Chromic acid anodization of titanium alloy 6-Al-4V for adhesive bonding", Israel J. Technology, 24, 549-555, (1988).
51. S. Wasserman, M. Snir, H. Dodiuk and S. Kenig, "Transmission and mechanical properties of optical adhesives", Israel J. Technology, 24, 667-673, (1988).
52. A. Kalehora, S. Sali, A. Hamish and H. Dodiuk, "Adhesion of epoxy filleting - adhesives and parylene conformal coating to Plasma treated solder mask coating substrates", Circuit World, 15, 18-21, (1989).
53. H. Dodiuk, S. Kenig and I. Liran, "Room temperature curing epoxy adhesives for elevated temperature service. Part II: Composition, properties, microstructure relationships", J. Adhesion, 31, 203-221, (1990).
54. E. Margalit, H. Dodiuk, E.M. Kosower and A. Katzir, "Infrared fiber evanescent wave. Spectroscopy for in-situ monitoring of Chemical processes", SPIE International Society for Optical Engineering IV. 15-20 January, 1989, Los Angeles, USA. Proceedings of "Infrared, Fiber Optics".
55. H. Dodiuk. S. Kenig, N. Fin, "The effect of moisture content on the performance of epoxy film adhesives. Part IV: Aluminum filled epoxy" J. Adhesion, 26, 315-336, (1988).
56. E. Margalit, H. Dodiuk, E.M. Kosower and A. Katzir, "Evanescent infrared spectroscopy using silver halide optical fibers facilitates In-situ monitoring of processes". Applied Physics Letters.
57. E. Margalit, H. Dodiuk, E.M. Kosower and A. Katzir, "Infrared fiber evanescent wave spectroscopy for in-situ monitoring of the Chemical processes in adhesive curing", Surface and Interface Analysis, 15, 473-478, (1990).
58. M. Angelovici, H. Dodiuk and S. Kenig, "Toughened acrylics short cure aids in underwater bonding", Adhesive Age, March 1990.
59. M. Angelovici, H. Dodiuk and S. Kenig, "Effect of surface preparation on performance of acrylic adhesive joints. Part 2", Int. J. Adhesion and Adhesives, 11, 143-491, (1991).
60. H. Dodiuk, N. Fin, A.E. Yaniv and S. Kenig, "Interfacial haracterization of epoxy-bonded maraging steel", J. Adhesion, 31, 191-202, 1990.
61. E. Wurzberg, A. Buchman, E. Zylberstein, Y. Holdengraber and H. Dodiuk, "Preadhesion laser surface treatment of polycarbonate and polyetherimide", Int. J. Adhesion and Adhesives, 10, 254-262, (1990).

62. H. Dodiuk, G. Sharon and S. Kenig, "Hygrothermal properties of adhesively bonded joints and their correlation with bulk adhesive properties", J. Adhesion, 33, 45-61, (1990).
63. H. Dodiuk, S. Kenig, "Fractured interface characterization of epoxy bonded steel joints", Surface and Interface Analysis, 17, 503-506, (1991).
64. H. Birenholtz, H. Dodiuk and S. Kenig, "Dielectric, magnetic and mechanical properties of ferrite composites", Polymers for Advanced Technology, 3, 1-7, (1992).
65. A. Calahorra, D. Aharoni and H. Dodiuk, "Carbon filled paints of improved electrical conductivity", J. Coatings Technology, 64, 27-31, (1992).
66. A. Buchman, Y. Holdengraber, H. Dodiuk and S. Kenig, "Durability of polyurethane elastomers", Polymers for Advanced Technologies, 2, 137-147, (1991).
67. A. Buchman, H. Dodiuk, M. Rotel, J. Zahavi, "Pre-adhesion treatment of thermoplastic adherends using excimer laser", Int. J. Adhesion and Adhesives, 11, 144-149, (1991).
68. H. Dodiuk, S. Kenig and I. Liran, "Low temperature curing epoxies for elevated temperature composites", Composites, 22, 319-327, (1991).
69. H. Dodiuk, S. Kenig and I. Liran, "Room temperature curing epoxy adhesives for elevated temperature service Part 3: The effect of silane coupling agents", J. Adhesion, 39, 123-136, (1992).
70. S. Wasserman, H. Dodiuk and S. Kenig, "Shear creep behavior of elastomeric adhesives", Int. J. Adhesion and Adhesives, 12, 257-263, (1992).
71. H. Dodiuk, A. Buchman, M. Rotel, J. Zahavi, S. Kenig and T.J. Reinhardt,"Pre-adhesion laser treatment of aluminum surfaces", J. Adhesion, 41, 93-112, (1993).
72. H. Dodiuk and S. Kenig, "Room temperature curing epoxies and their elevated temperature properties", Makromol, Chem. Macromol Sym., 53, 105-124, (1992).
73. I. Gilath, R. Englman, Z. Jaeger, A. Buchman and H. Dodiuk "Impact resistance of adhesive joints using laser induced shock waves" J. Laser Applications, 7, 169-176, (1995).
74. A. Buchman, F. Weinstein, I. Honigsberg, Y. Hodengraber and H. Dodiuk "Stress analysis and testing of parallel and tapered adhesive butt joints", J. Adhesion Science and Technology, 7, 385-397, (1993).
75. H. Dodiuk, A. Buchman, I. Liran and S. Kenig, "Epoxy adhesives for repair of composite structures. Part V", J. Adhesion, 40, 127-138, (1993).
76. H. Dodiuk and S. Kenig, "Low temperature curing epoxies for structural repair" Progress in Polymer Science, 19, 439-467, (1994).
77. Z. Ophir, A. Buchman, F. Flashner, H. Simons and H. Dodiuk, "Modified epoxy formulation for improving the fracture resistance of filament wounded pressure vessels", Invited for publication to J. Adhesion Science and Technology, 9, 2, 159-175, (1995).
78. M.S. Silverstein, O. Breuer and H. Dodiuk, "Surface modification of UHMWPE fibers", J. Applied Polymer Science, 52, 1785-1795, (1994).
79. M. Rotel, J. Zahavi, Z. Gendler, A. Rosen, M. Bamberger, A. Buchman, H. Dodiuk, "Improvement of adhesive bonding strength in sealed anodized aluminum through excimer laser pre-bond treatment", J. Materials Science, 29, 1521-1526, (1994).

80. M. Rotel, A. Buchman, J. Zahavi and H. Dodiuk, “Preadhesion laser surface treatment of carbon fiber reinforced PEEK composite”, J. Adhesion, 55, 77-97, (1995).
81. I. Eppelbaum, H. Dodiuk, S. Kenig, B. Zalsman and A. Valdman “An advanced multipurpose dental adhesive system”, J. Adhesion Science and Technology, 9, 10, 1357-1368, (1995).
82. A. Buchman, H. Dodiuk, M. Rotel and J. Zahavi, “Laser induced adhesion enhancement of polymer composites and metal alloys”, J. Adhesion Science and Technology, 8, (10), 1211-1224, (1994).
83. R. Pilo, T. Brosh, E. Sapinko and H. Dodiuk, “Long term durability of adhesive systems bonded to fresh amalgam”, J. Prosthetic Dentistry, 76, (4), 431-436, (1996).
84. I. Eppelbaum, H. Dodiuk, S. Kenig, B. Zalsman and A. Valdman, “The role of anaerobic accelerator in dental adhesives”, J. Adhesion Science and Technology, 10, 10, 1075-1087, (1996).
85. A. Buchman, H. Dodiuk, M. Rotel and J. Zahavi, “Durability of laser treated reinforced PEEK/epoxy bonded joints”, J. Adhes. Sci. Technol, Polymer Surfaces and Interfaces: Characterization, Modification and Application, Pp.37-69, K.L. Mittal and K.W. Lee, Edition 1997.
86. A. Buchman, H. Dodiuk, M. Rotel and J. Zahavi, “Laser-induced adhesion enhancement of polymer composites and metal alloys”, Polymer Surface Modification: Relevance to Adhesions, edited by K.L. Mittal, VSP, Pp.199-212, (1995).
87. H. Dodiuk, A. Buchman, M. Rotel and J. Zahavi (invited paper), “UV treatment of surfaces with excimer lasers, and its effect on Adhesion Properties” Chapter in "Mittal Festschrift on Adhesion Science and Technology". W.J. van Ooij, H.R. Anderson, Jr. VSP pub. Holland pp. 387-405, 1998.
88. A. Buchman and H. Dodiuk, “Laser surface treatment to improve adhesion (invited chapter) "Adhesion Promotion in Technological Applications” edited by K.L. Mittal and, Pizzi, Marcel Dekker, Inc., pp.205-245, 1999.
89. D. Sagi-Mana, M. Narkis, A. Siegmann, R. Joseph and H. Dodiuk, “The effect of marine environment on a vinyl ester resin and its highly Filled particulate quartz composites”, J. Applied Polymer Science, 69, 2229-2234 (1998).
90. D.Alperstein, H. Doduik and S. Kenig, "Computer Simulation of curing and toughening of epoxy systems", cta Polymer 49 594-599 (1998).
91. E. Dreerman, M. Narkis, A. Siegmann, R. Joseph, H. Dodiuk and A.T. Di Benedetto, “Mechanical Behavior and Structure of Rubber Modified Vinyl ester Resins", J. Applied Polymer Science, (1998).
92. M. Rotel, J. Zahavi,, S. Tamir, A. Buchman and H. Dodiuk-Kenig. “Prebonding Technology Based on Excimer Laser Surface Treatment” Applied Surface Science 154-155, 610 (2000).
93. A. Buchman, C. Kalil, H. Dodiuk, M. Rotel, "Microstructure characterization of Laser Treated surfaces”, J. Adhesion, 77/2, 163-181 (2001).
94. H. Dodiuk, Z. Gold, S. Kenig, "Tailoring New Architectures for Polyurethanes using Dendritic and Hyper-branched Polymers and their Adhesion Behavior. Part I", J. Adhes. Sci. Technol. 18, 3,301-311 (2004).
95. H. Dodiuk, K. Lizenboim,I. Eppelbaum, B. Zalsman and S. Kenig, The Effect of Hyper-branched Polymers on the Properties of Dental Composites And Adhesives”, J. Adhes. Sci. Technol. 18, 15, 1723-1737 (2004).

96. H. Dodiuk, A. Buchman, and S. Kenig, Novel Adhesion Promoters Based On hyperbranched polymers", Composite Interfaces, 11/7 pp.453-469 (2004)
97. H. Dodiuk, S. Kenig, I.Belinsky, A. Dotan, A. Buchman, "Nano Tailoring of Epoxy Adhesives by polyhedral-oligomeric-sil-sesquioxanes (POSS), Int. J. Adh, Adh, 25, 211-218 (2005).
98. A. Buchman, H. Dodiuk, T. Brand, Z.Gold, S. Kenig, Chapter in "Adhesion" W.Possart, Wiley-VCH GmbH & Co, Weinheim, Germany Chapter 15, pp. 217-228 (2005.
99. P.F. Rios, H. Dodiuk, S.Kenig, S.McCarthy and A.Dotan, "The Effect of Nanostructured and Composition on the Hydrophobic Properties of Solid Surfaces", J. Adhes. Sci. Technol 20 (6) pp.563-587. (2006).
100. T. Efrat, H. Dodiuk, S. Kenig, and S. McCarthy "Nano Tailoring of Polyurethane Adhesive by Polyhedral Oligomeric Silsesquioxana (POSS)" , J. Adhes. Sci. Technol.20, 12, 1413-1430 (2006).
101. H. Dodiuk, K.Lisenboim ,Y.Maoz S. Kenig and B.Zalsman, "The effect of Grafted Caged Silica (Polyhedral Oligomeric Silsesquioxane) on The Properties of Dental Composites and Adhesive", J. Adhes. Sci. Technol.20, 12, 1401-1412 (2006).
102. H. Dodiuk, I.Belinsky, A. Dotan and S. Kenig "Polyurethane Adhesives Containing Functionalized Nanoclays", J. Adhes. Sci. Technol.12, 20, 1345-1355, (2006)
103 H. Dodiuk, S. Kenig, I.Belinsky, A. Dotan, A. Buchman, " Nano Tailoring of Elevated Temperature Epoxy Adhesives by polyhedral-oligomeric-sil-sesquioxanes(POSS), Submitted to Publication J. Adh, Adh, (2006)
104 P.F. Rios, H. Dodiuk, S.Kenig, S.McCarthy and A.Dotan "The effect of Polymer Surface on the Wetting and Adhesion of Liquid Systems", J. Adhes. Sci. Technol., 21, 3-4,227-241(2007).
105. P.F. Rios, H. Dodiuk, S.Kenig, S.McCarthy and A.Dotan " Transparent ultra-hydrophobic Surfaces", J. Adhes. Sci. Technol., 21, 5-6,399-408(2007)
106. H. Dodiuk-Kenig, K.lizenboim, S.Roth, B.Zalsman, W.A. McHale and M. Jaffe "Performance Enhancement of Dental Composites Using Electrospun Nanofibers", Vol. 2008, article ID 840254, 6 pages, J. of Nanomaterials (2007).
107. H. Dodiuk, P.F. Rios, A.Dotan and S.Kenig, "Hydrophobic and Self –cleaning coatings", Polymers for. Advanced Technologies, 18:746-750 (2007).
108. I. Lir ,M. Haber and H. Dodiuk-Kenig "Skin Surface Model Material as a Substrate for Adhesion –to-Skin Testing", J. Adhes. Sci. Technol., 21, 15, 1497-1512 (2007).
109. F.Rios, H.Dodiuk,S.Kenig and A.Dotan, "Durable Ultra-Hydropohobic Surfaces for Self-Cleaning Applications", Polymers for Advanced Technologies 19, 11, 1684-1691, (2008).
110. H. Eshel, L. Dahan, A. Dotan, H. Dodiuk and S. Kenig, "Nanotailoring of Nanocomposite Hydrogels Containing POSS" , Polymer Bulletin, 61, 2, 257-265 (2008).
111. A. Buchman, H. Dodiuk ,A. Dotan, R. Tenne and S. Kenig, "Toughening of Epoxy Adhesives by Nanoparticles, J. Adhes. Sci. Technol, 23,753-768 (2009).
112. Anna. Dotan, H. Dodiuk, C. Laforte and S. Kenig, "The relationship between Water Wetting and Ice Adhesion", J. Adhes. Sci. Technol., 23, 1907-1915 (2009).
113. Y. Shaked, H. Dodiuk, S. Kenig and S. McCarthy,"Thermal Stabilization of Biodegradable Poly Hydroxy-Butyrate in Melt Extrusion", Polymer Engineering and Science, Volume 49 (3), Pages 559 –566 (2008) .

114. M. Shneider, H. Dodiuk, S. Kenig and R. Tenne, "The Effect of Tungsten Sulfide Fullerene-like Nanoparticle on The Toughness of Epoxy Resins", J. Adhes. Sci. Technol 24, 1083-1095(2010).
115. E.Zohar, S. Baruch, M. Shneider, H. Dodiuk, S. Kenig, R. Tenne, D. Wagner "The Effect of WS2 Nanotubes on the Properties of Epoxy Based – Nanocomposies", J. Adhes. Sci. Technol, 25, 1603-1617 (2011).
116. N. Even, L. Adler-Abramovich, L. Buzhansky H. Dodiuk and E. Gazit, "Improvement of the Mechanical Properties of Epoxy by Peptide Nanotubes Fillers" Small, 7(8)1007-1011, (2011).
117. H. Dodiuk, S.Kenig and A.Dotan, "The Effect of Nanostructure and Composition of Solid Surfaces on Ice Adhesion" V. Gutowski & H. Dodiuk editors "Recent Advances in Adhesion Science and Technology in Honor of Dr. Kash" ISBN 9789004201736, CRC Press, Francis &Taylor Edition (2013).
118. H. Dodiuk, S. Kenig and A. Dotan, "Do Self-cleaning Surfaces Repel Ice?" J. Adhes . Sci. Technol 26, 701–714 (2012).
119. E. Zohar, S. Baruch, M. Shneider, H. Dodiuk, S. Kenig, D.H. Wagner, A. Zak, A. Moshkovith, L. Rapoport and R. Tenne, "The Mechanical and Tribological Properties of Epoxy Nanocomposites with WS2 Nanotubes", Sensors & Transducers Journal 12, 53-65 (2011).
120. E. Cohen, O. Binshtik, A. Dotan and H. Dodiuk, "Prospective Materials for Biodegradable and /or Bio-Based Pressure – sensitive Adhesives: A Review" J. Adhes. Sci. Technol.. Special Issue on Bio-based Adhesives, 27, 1998-2013 (2013).
121. K. Lizenboim, H. Dodiuk, N. Iuster, T. Kidan, I. Suvorov, S. Kenig and B. Zalsman, "Bisphenol-A Free Dental Polymeric materials", J. Adhes. Sci. Technol, 27; 4,354-370 (2013).
122. S. Simcha, A. Dotan, S. Kenig and H. Dodiuk, "Characterization of Hybrid Epoxy Nanocomposites" , Journal of Nanomaterials, 2, 348-365 (2012).
123. M. Shneider, L. Rapoport, A. Moshkovich, H. Dodiuk, S. Kenig, R. Tenne and A. Zak, "Tribological performance of the epoxy-based composite reinforced by WS2 fullerene-like nanoparticle and nanotubes, Phys. Status Solidi A, 10, 11, 2298-2306 (2012).
124. A. Polkovitch, H. Dodiuk, and S.Kenig, "Super-hydrophilic Coatings Based on Silica Nanoparticles", J. Adhes. Sci. Technol 28, 5,466-478 (2014).
125. H. Dodiuk, O.Kariv, S. Kenig, and R. Tenne, "The Effect of Tungsten Disulphide Nanoparticles on the Properties of Polyurethane Adhesives" J. Adhes. Sci. Technol 28, 1, 38-52 (2013).
126. E. Cohen, H. Dodiuk, A. Ophir, S. Kenig, C. Barry, J. Mead, "Evidences for π - interactions between pyridine modified copolymer and its role as a compatibilizer in poly (methyl methacrylate) composite", Journal of Composites Science and Technology 79, 133-139 (2013).
127. A. Buchman, M. Rotel and H. Dodiuk, "Nd:YAG Laser Surface Treatment of Various Materials to Enhance Adhesion", Chapter in "Laser Surface Modification and Adhesion" pp 3-53. Edited by Wiley-Scrivener Publishing, MA, USA. ISBN-978-1-118-83153-2) (2014).
128. G. Goldberg, H. Dodiuk, S. Kenig, R. Cohen and R. Tenne, "The Effect of Tungsten Disulphide Nanotubes on the Properties of Silicone Adhesives" International Journal of Adhesion & Adhesives 55, 77-81(2014).

129. G. Goldberg, H. Dodiuk, S. Kenig, and R. Cohen, "The Effect of Multiwall Carbon Nanotubes on the Properties Room Temperature Vulcanized Silicone Adhesives" , J. Adhes Sci. Technol 28, 17, 1661-1676 (2014).
130. T. Nahum, H. Dodiuk, A. Dotan, S. Kenig and J.P. Lellouche, "Durable bonding of silica nanoparticles to polymers by photo radiation for control Surface properties", Polym. Adv. Technol. 25 723-731 (2014).
131. T. Nahum, H. Dodiuk, A. Dotan, S. Kenig and J.P. Lellouche, "UV-Photoreactive Silica Nanoparticles for Durable Superhydrophobic Surfaces", J.Appl.Poly.Sci., 1-8 (2014).
132. Cohen, N.; Dodiuk, H.; Kenig, S.; Dotan, A., "Superhydrophobic Coatings and their Durability", Materials and Manufacturing Processes, 31 (9), 1-13. DOI:10.1080/10426914.2015.1090600 (2016).
133. Cohen, N.; Dotan, A.; Dodiuk, H.; Kenig, S., "Thermomechanical Mechanisms of Reducing Ice Adhesion on Superhydrophobic Surfaces", Langmuir, *32* (37), 9664–9675 (2016).
134. G. Otorgust, A. Sedova, H. Dodiuk, S. Kenig and R. Tenne, "Carbon and tungsten Disulfide nanotubes and fullerene-like nanostructures in thermoset adhesives", Reviews of Adhesion and Adhesives, 3 .3 311-363 (2015).
135. T. Nahum, H. Dodiuk, S. Kenig, A. Panwar, C. Barry, and J. Mead, "The Effect of Composition and Thermodynamics on the Surface Morphology of Durable Superhydrophobic Polymer Coatings", Nanotechnology Science and Applications, 10, 53-68 (2017).
136. T.Nahum ,H. Dodiuk,S. Kenig,C. Barry and J. Mead, "The Role of Roughness in Random Superhydrophobic Surfaces", Journal of Nanotechnology Nanomedicine Vol.3,Issue 2,(2018).
137. Otorgust, G., Dodiuk, H., Kenig, S., & Tenne, R., "Important insights into polyurethane nanocomposite-adhesives; a comparative study between INT-WS2 and CNT", European Polymer Journal, 89, 281–300 (2017).
138. A. Sedova , S. Khodorov, D. Ehre, B. Achrai, H.D. Wagner, R. Tenne, H. Dodiuk and S. Kenig, "Dielectric and electrical properties of WS2 nanotubes/epoxy composites and their use for stress monitoring in structures", Journal of Nanomaterials .p 1-13 (2017).
139. A. Sedova, G. Leitus, Y. Feldman, T. Bendikov, R. Popovitz-Biro, S. Khodorov, H. Dodiuk, S. Kenig and R. Tenne, "Synthesis of magnetic FeWO4 nanoparticles and their decoration of WS2 nanotubes surface", J. Mat. Sci, 52:6376-6387 (2017).
140. N. Goldin, H. Dodiuk, and D. Lewitus, "Enhanced thermal conductivity of photopolymerizable composites using surface modified hexagonal boron nitride fillers", Composites Science and Technology 152, 36-45 (2017).
141. J. Macutkevic, J. Belovickis, G. Otorgust, H. Dodiuk, S. Kenig, V. Samulionis, J. Banys, A. Zak, "Broadband dielectric and ultrasonic properties of WS2 Nanotubes/polyurethane composites", Polym. Compos p. 1-9 (2017).
142. S. Czyzyk*, A. Dotan, H. Dodiuk and S.Kenig, "Easy-to-clean superhydrophobic coating based on sol-gel", Rev. Adhesion Adhesive Ttechnology: Acritical Review" vol.5, no.4, pp.325-360 (2017).
143. S. Kenig ,H. Dodiuk ,G.Otorgust ,S. Gomid, "Nanocomposite Polymer Adhesives: A Critical Review", Rev. Adhesion Adhesive,Vol.7,number 2, pp 93-168(76) (2019).

144. M. Sheinbaum, L. Sheinbaum, O. Weizman, S. Kenig, H. Dodiuk, "Toughening of Epoxy by Brominated Epoxy", Polymer Engineering and Science DOI 10.1002/pen.24890 (2019).
145. L. Sheinbaum, M. Sheinbaum, O. Weizman, H. Dodiuk, S. Kenig, "The Effect of Brominated Epoxy on The Properties of Epoxy / Phenolic", Applied Polymer Science, Doi:10.1002/APP 47172 (2018).
146. M. Sheinbaum, L. Sheinbaum, O. Weizman, S. Kenig, H. Dodiuk, "Toughening and enhancing mechanical and thermal properties and adhesives and glass-fiber reinforced epoxy composites by brominated epoxy", Composites Part B 165 p.604-612 (2019).
147. S. Czyzyk, A.Dotan, H. Dodiuk, S.Kenig, "Processing effects on the kinetics morphology and properties of hybrid sol- gel superhydrophobic coatings", Progress in organic coatings , 140, 105501, (2020).
148. A. Macutkevic, J. Belovickis, G. Otorgust, H. Dodiuk, Sh. Kenig, V. Samulionis, J. Banys, A. Zak, "Broadband dielectric and ultrasonic properties of WS2" nanotubes/polyurethane composites, Polymer Composites, 39(12), (4477-4485) (2018).
149. M. Shneider, L. Rapoport, A. Moshkovich, H. Dodiuk, S. Kenig, R. Tenne and A. Zak, "Tribological Performance of the Epoxy-Based Composite Reinforced by WS2 Fullerene-Like Nanoparticles and Nanotubes" Phys. Status Solidi A 210, 2298–2306 (2018).
150. H. Monder, L. Belienki, H. Dodiuk, A. Dotan, S. Kenig. "Poly(dimethylsiloxane) coating for Repellency of Polar and Non-Polar Liquids ", Polymers, 12, 2423 (2020)
151. K. Zheng, J. Zhang, H. Dodiuk, S. Kenig, C. Barry, E B. Iezzi and Joey Mead, "The effect of composite interface morphology on wetting states for nanocomposite superhydrophobic coating", Surface and Coatings Technology 387 (2020): 125457.
152. K. Zheng1, J. Zhang1, H. Dodiuk, S. Kenig, C. Barry, H. Sun and J. Mead, " The Effect of Superhydrophobic Nanocomposite Coatings on Drag Reduction in Laminar Flow ", ACS, Applied Polymer Materials 2, no. 4 (2020): 1614-1622.
153. S. Turkoglu, J. Zhang, H. Dodiuk, S. Kenig, Jo Ann Ratto3 J. Mead," The Study of Wetting Properties of Silica-Poly (acrylic acid) Thin Film Coatings", in Press (2020)
154. D. Heiman Burstein, A. Dotan, H. Dodiuk, S. Kenig, "Hybrid Sol–Gel Superhydrophobic Coatings Based on Alkyl Silane-Modified Nanosilica", Polymers 13, 539 (2021).
155. Orli Weizman, Joey Mead, Hanna Dodiuk, Samuel Kenig Electrical Properties Enhancement of CNT Yarns by Cyclic loading Molecules, 25, 4824 (2020)
156. Yujie Wang, Jinde Zhang, Hanna Dodiuk, Samuel Kenig, Jo Ann Ratto Ross, Carol Barry, Joey Mead, Relationship between topography and ice adhesion strength on superhydrophobic surfaces Submitted for Publication (2020)
157. Natanel Jarach, David Meridor, Marina Buzhor, Daniel Raichman, Hanna Dodiuk, Shmuel Kenig and Elizabeth Amir* "Anti-bacterial and electro-conductive coating for textile based on organic conjugated polymer". *Polymers* 2020, *12*, 1517.

158. Netanel Jarach, Hanna Dodiuk, Samuel Kenig
"Hybrid Polymers in the Medical Antiviral Front-Line"
Polymers 2020, *12*, 1727

159. K. Zheng1, J. Zhang1, H. Dodiuk, S. Kenig, C. Barry, and J. Mead,
"The Effect of Superhydrophobic Surface topography on underwater corrosion Resistance to Steel" Journal of Coatings Technology and research (2020)

160. R. Zukermann , v
Water and bio based of Reactive covalent Bonding, Relevance to Adhesives"
Reviews of Adhesion and Adhesives,
In Press (2020)

161. Netanel Jarach, Hanna Dodiuk , Samuel Kenig
"Reactive covalent Bonding
In Preparation 2020

C. Books

1. V. Gutowski & H. Dodiuk editors "Recent Advances in Adhesion Science and Technology in Honor of Dr. Kash", ISBN 9789004201736, 2013, CRC Press, Francis &Taylor Edition (One chapter in the book).

2. H. Dodiuk & S. Goodman editors "Handbook of Thermoset Plastics" ISBN 9781455731077, 2014, Third Edition, Elsevier Edition (Two chapters in the book).

3. H. Dodiuk Editor, "Handbook of Thermoset Plastics" , Fourth edition in preparation (2020).(5 chapters author in the book)

D. Patents

1. B. Zalsman, H. Dodiuk, I. Eppelbaum and A. Valdman, "Dental adhesives and restoration compositions", U.S. Patent No. 5,374,664, 20th December, 1994.

2. B. Zalsman, H. Dodiuk, I. Eppelbaum and A. Valdman, "Dental adhesives and restoration compositions", Israel Patent No. 107414, Priority Date 27th October, 1993, DE N4317816.

3. B. Zalsman, H. Dodiuk, I. Eppelbaum and A. Valdman, "Dental adhesives and restoration compositions", Israel Patent No. 10274, Priority Date 21st June, 1992, GB N 2268749.

4. H. Dodiuk, "Triglycidyl Ether Tetraglycidyl ether alkadiene rubber Polyalkylene Polyamine Formulation", U.S. Patent No. 4,841,010, June 20, 1989.

5. P. Nazarian, I. Maroofian, S. Kenig and H. Dodiuk, "Microwave processing system for polymers: U.S. Application. Patent No. 60/027. Sep. 1996 HPM/STADCO.

6. P. Nazarian, I. Maroofian, S. Kenig and H. Dodiuk, "Microwave processing system for metals in preparation", HPM/STADCO, 1998, Application No. 50246-219610/ Int.app.no. PCT/US99/14418.

7. .Z. Ganor, N. Karasikov, H. Dodiuk, "Replaceable friction coupling for piezoelectric motors. Nanomotion October 2006: US 7119477.
8. H. Dodiuk," Dendritically modified polyurethanes compositions. DE Appl. No in Gernamy, Appl. No USA 10/351610, (2003), USP 6879085 10203058.8 (2002).
9. M. Haber, I. Lir, H. Dodiuk, R. Azhari, "Large Scale Extraction of Algal Materials and products thereof", US Provisional Patent Application No. 60/306,447.
10. L. Shiv, I. Rafaeli, Z. Ganor, N. Kabasikov, H. Dodiuk, "Resonance shifting". Nanomotion April 2005: US 6879085L.
11. H. Dodiuk, K. Lizenboim and B. Zalsman, "Dental compositions based on nanofibers (Provisional, 8/2005).
12. H. Dodiuk and F. Rios, "Self-cleaning ultrahydrophobic surfaces based on POSS nanoparticles". Provisional 10/2005
13. H. Dodiuk and F. Rios, "Use of POSS nanostructured molecules for hydrophobic and self-cleaning Coatings" WO/2007/05226.0
14. H. Dodiuk, A. Cahan, M. Sheinovitz, "Minimally Invasive System for Treating Hollow Organ Dilatation", WO 2007/113833 11/10/ 2007
15. H. Dodiuk, B. Zalsman, K. Lisenboim, W. A McHale, "Dental compositions based on nanofiber reinforcement", February 2007: US 20070043142.
16. H. Dodiuk Kenig and Y. Shaked , "Thermal Stabilization of Biodegradable Poly-Hydroxy-Butyrate in Melt Extrusion Using Hyperbranched Polymers", 60/960,998. 2007.
17. L. Shiv, I. Rafaeli, Z. Ganor, N. Karasikov, H. Dodiuk, "Resonance shifting. Nanomotion October 2005: US 20050236936.
18. L. Shiv, I. Rafaeli, Z. Ganor, N. Karasikov, H. Dodiuk, "Resonance shifting. Nanomotion February 2007: US 7183690.
19. J. Constantinou, Hanna Dodiuk, C.M.F Barry, S. Kenig, J. Mead, A. Panwar and T.Nahum, "Methods and Formulation for Superhydrophic, self-Cleaning, and Ice Phobic Polymer Coatings and Objects Having Coatings Thereon", Application no.14/542,108 files on November 14, 2014.
20. I. Molcho, H. Reuven and H. Dodiuk Submitted, "Anti-Scratch UV curable hard clear coats on flat polymeric substrates", Submitted for Publication.
21. H. Dodiuk, S. Kenig, J. Mead, C. Barry and T. Nahum, "Durable Icephobic polymer coating", Filed on April 8 2014.
22. H. Dodiuk, S. Kenig, J. Mead, C. Barry and T. Nahum, "Methods and formulations for durable superhydrophobic, self-cleaning And Superhydrophobic polymer coating and object having coatings Thereon". Filed on April 9, 2015.
23. A.Bahar, N. Manassa, H. Dodiuk, Nurami, ," An Adhesive Layered Matrix and Uses Thereof", Provisional submitted (2017).
24. H. Dodiuk, S. Kenig, O. Weizman, A, Sheinbaum, M. Sheinbaum, "Structural Adhesives and Composites Comprising Brominated Epoxies", PCT submitted (2017)
25. H. Dodiuk, N. Cohen, A. Dotan and S. Kenig, "Durable Superhydrophobic Coatings", PCT submitted (2018).
26. J. Mead, O. Weizman, S. Kenig, H. Dodiuk, "Stretchable Conductive Electronics Materials Using Conductive Carbon Nanotube Fibers". Application No.62/755.238 files on November 2, 2018.

27. J. Zhang, J. Mead, H. Dodiu, S. Kenig, K. Zheng, "High-rate manufacturing of superomniphobic polymeric surfaces", US Patent. 15/159,428 on 26 Feb 2019
28. US utility patent application (US 14/542,108; https://patents.google.com/patent/US20160200953A1/en). US one is still pending.
29. US utility application (US 15/304,242; https://patents.google.com/patent/US20170036241A1/en)
30. EP application (EP 15779807.5; https://patents.google.com/patent/EP3131686A4/en)