

Emel Yilgor

List of Publications by Year in descending order

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104
papers

6,280
citations

81900

39
h-index

69250

77
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104
all docs

104
docs citations

104
times ranked

5977
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrospinning of polyurethane fibers. <i>Polymer</i> , 2002, 43, 3303-3309.	3.8	942
2	Critical parameters in designing segmented polyurethanes and their effect on morphology and properties: A comprehensive review. <i>Polymer</i> , 2015, 58, A1-A36.	3.8	439
3	Silicone containing copolymers: Synthesis, properties and applications. <i>Progress in Polymer Science</i> , 2014, 39, 1165-1195.	24.7	397
4	FTIR investigation of the influence of diisocyanate symmetry on the morphology development in model segmented polyurethanes. <i>Polymer</i> , 2006, 47, 4105-4114.	3.8	294
5	Comparison of hydrogen bonding in polydimethylsiloxane and polyether based urethane and urea copolymers. <i>Polymer</i> , 2000, 41, 849-857.	3.8	226
6	Hydrogen bonding and polyurethane morphology. I. Quantum mechanical calculations of hydrogen bond energies and vibrational spectroscopy of model compounds. <i>Polymer</i> , 2002, 43, 6551-6559.	3.8	223
7	Influence of system variables on the morphological and dynamic mechanical behavior of polydimethylsiloxane based segmented polyurethane and polyurea copolymers: a comparative perspective. <i>Polymer</i> , 2004, 45, 6919-6932.	3.8	177
8	Role of chain symmetry and hydrogen bonding in segmented copolymers with monodisperse hard segments. <i>Polymer</i> , 2005, 46, 7317-7322.	3.8	148
9	Intercalated chitosan/hydroxyapatite nanocomposites: Promising materials for bone tissue engineering applications. <i>Carbohydrate Polymers</i> , 2017, 175, 38-46.	10.2	130
10	Structureâ€Morphologyâ€Property Behavior of Segmented Thermoplastic Polyurethanes and Polyureas Prepared without Chain Extenders. <i>Polymer Reviews</i> , 2007, 47, 487-510.	10.9	120
11	Understanding the influence of hydrogen bonding and diisocyanate symmetry on the morphology and properties of segmented polyurethanes and polyureas: Computational and experimental study. <i>Polymer</i> , 2014, 55, 4563-4576.	3.8	120
12	The effect of varying soft and hard segment length on the structureâ€property relationships of segmented polyurethanes based on a linear symmetric diisocyanate, 1,4-butanediol and PTMO soft segments. <i>Polymer</i> , 2012, 53, 5358-5366.	3.8	119
13	Structureâ€property relationships and melt rheology of segmented, non-chain extended polyureas: Effect of soft segment molecular weight. <i>Polymer</i> , 2007, 48, 290-301.	3.8	118
14	Hydrogen bonding: a critical parameter in designing silicone copolymers. <i>Polymer</i> , 2001, 42, 7953-7959.	3.8	111
15	Hydrogen bonding and polyurethane morphology. II. Spectroscopic, thermal and crystallization behavior of polyether blends with 1,3-dimethylurea and a model urethane compound. <i>Polymer</i> , 2002, 43, 6561-6568.	3.8	102
16	Facile preparation of superhydrophobic polymer surfaces. <i>Polymer</i> , 2012, 53, 1180-1188.	3.8	99
17	Effect of Symmetry and Hâ€bond Strength of Hard Segments on the Structureâ€Property Relationships of Segmented, Nonchain Extended Polyurethanes and Polyureas. <i>Journal of Macromolecular Science - Physics</i> , 2007, 46, 853-875.	1.0	94
18	A New Generation of Highly Branched Polymers:â€ Hyperbranched, Segmented Poly(urethane urea) Elastomers. <i>Macromolecules</i> , 2004, 37, 7081-7084.	4.8	84

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19	Influence of the average surface roughness on the formation of superhydrophobic polymer surfaces through spin-coating with hydrophobic fumed silica. <i>Polymer</i> , 2015, 62, 118-128.	3.8	83
20	Hydrophilic polyurethaneurea membranes: influence of soft block composition on the water vapor permeation rates. <i>Polymer</i> , 1999, 40, 5575-5581.	3.8	78
21	Electrospun polycaprolactone/silk fibroin nanofibrous bioactive scaffolds for tissue engineering applications. <i>Polymer</i> , 2019, 168, 86-94.	3.8	74
22	Novel triblock siloxane copolymers: Synthesis, characterization, and their use as surface modifying additives. <i>Journal of Polymer Science Part A</i> , 1989, 27, 3673-3690.	2.3	73
23	Influence of soft segment molecular weight on the mechanical hysteresis and set behavior of silicone-urea copolymers with low hard segment contents. <i>Polymer</i> , 2011, 52, 266-274.	3.8	73
24	Contribution of soft segment entanglement on the tensile properties of silicone-urea copolymers with low hard segment contents. <i>Polymer</i> , 2009, 50, 4432-4437.	3.8	72
25	Understanding the structure development in hyperbranched polymers prepared by oligomeric A2+B3 approach: comparison of experimental results and simulations. <i>Polymer</i> , 2005, 46, 4533-4543.	3.8	71
26	Isopropyl alcohol: an unusual, powerful, "green" solvent for the preparation of silicone-urea copolymers with high urea contents. <i>Polymer</i> , 2003, 44, 7787-7793.	3.8	67
27	Structure-property behavior of poly(dimethylsiloxane) based segmented polyurea copolymers modified with poly(propylene oxide). <i>Polymer</i> , 2005, 46, 8185-8193.	3.8	67
28	Fabrication of rigid poly(lactic acid) foams via thermally induced phase separation. <i>Polymer</i> , 2016, 107, 240-248.	3.8	61
29	Structure-property behavior of segmented polyurethaneurea copolymers based on an ethylene-butylene soft segment. <i>Polymer</i> , 2005, 46, 10191-10201.	3.8	60
30	Effect of soft segment molecular weight on tensile properties of poly(propylene oxide) based polyurethaneureas. <i>Polymer</i> , 2012, 53, 4614-4622.	3.8	55
31	Polyurethaneurea-silica nanocomposites: Preparation and investigation of the structure-property behavior. <i>Polymer</i> , 2013, 54, 5310-5320.	3.8	53
32	Probing the urea hard domain connectivity in segmented, non-chain extended polyureas using hydrogen-bond screening agents. <i>Polymer</i> , 2008, 49, 174-179.	3.8	52
33	Fumed silica filled poly(dimethylsiloxane-urea) segmented copolymers: Preparation and properties. <i>Polymer</i> , 2011, 52, 4189-4198.	3.8	51
34	Polyisobutylene-based polyurethanes. II. Polyureas containing mixed PIB/PTMO soft segments. <i>Journal of Polymer Science Part A</i> , 2009, 47, 2787-2797.	2.3	48
35	Time-dependent morphology development in segmented polyetherurea copolymers based on aromatic diisocyanates. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 471-483.	2.1	48
36	Preparation of segmented, high molecular weight, aliphatic poly(ether-urea) copolymers in isopropanol. In-situ FTIR studies and polymer synthesis. <i>Polymer</i> , 2004, 45, 5829-5836.	3.8	47

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37	Polyisobutylene-based segmented polyureas. I. Synthesis of hydrolytically and oxidatively stable polyureas. <i>Journal of Polymer Science Part A</i> , 2009, 47, 38-48.	2.3	47
38	Tunable Wetting of Polymer Surfaces. <i>Langmuir</i> , 2012, 28, 14808-14814.	3.5	44
39	Time-Dependent Morphology Development in a Segmented Polyurethane with Monodisperse Hard Segments Based on 1,4-Phenylene Diisocyanate. <i>Macromolecules</i> , 2005, 38, 10074-10079.	4.8	43
40	Rheology and extrusion of medical-grade thermoplastic polyurethane. <i>Polymer Engineering and Science</i> , 2003, 43, 1863-1877.	3.1	41
41	Additive effects of dexamethasone in nebulized salbutamol or l-epinephrine treated infants with acute bronchiolitis. <i>Pediatrics International</i> , 2004, 46, 539-544.	0.5	40
42	A comparative study of the structure-property behavior of highly branched segmented poly(urethane) triblock copolymers. <i>Polymer</i> , 2016, 83, 138-153.	3.8	39
43	Influence of the coating method on the formation of superhydrophobic silicone-urea surfaces modified with fumed silica nanoparticles. <i>Progress in Organic Coatings</i> , 2015, 84, 143-152.	3.9	37
44	Thermal stabilities of end groups in hydroxyalkyl terminated polydimethylsiloxane oligomers. <i>Polymer Bulletin</i> , 1998, 40, 525-532.	3.3	34
45	Structure-Property Behavior of New Segmented Polyurethanes and Polyureas Without Use of Chain Extenders. <i>Rubber Chemistry and Technology</i> , 2005, 78, 737-753.	1.2	34
46	Synthesis and structure-property behavior of polycaprolactone-polydimethylsiloxane-polycaprolactone triblock copolymers. <i>Polymer</i> , 2016, 83, 138-153.	3.8	32
47	Polyisobutylene-based polyurethanes. III. Polyurethanes containing PIB/PTMO soft co-segments. <i>Journal of Polymer Science Part A</i> , 2009, 47, 5278-5290.	2.3	31
48	Temperature-dependent changes in the hydrogen bonded hard segment network and microphase morphology in a model polyurethane: Experimental and simulation studies. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2018, 56, 182-192.	2.1	31
49	Effect of Chemical Composition on Large Deformation Mechano-optical Properties of High Strength Thermoplastic Poly(urethane urea)s. <i>Macromolecules</i> , 2004, 37, 8676-8685.	4.8	28
50	Preparation of monolithic polycaprolactone foams with controlled morphology. <i>Polymer</i> , 2018, 136, 166-178.	3.8	27
51	Real time mechano-optical study on deformation behavior of PTMO/CHDI-based polyetherurethanes under uniaxial extension. <i>Polymer</i> , 2009, 50, 4644-4655.	3.8	26
52	Mechanical reinforcement and memory effect of strain-induced soft segment crystals in thermoplastic polyurethane-urea elastomers. <i>Polymer</i> , 2021, 223, 123708.	3.8	26
53	1,3-bis(3-aminopropyl)tetramethyldisiloxane modified epoxy resins: curing and characterization. <i>Polymer</i> , 1998, 39, 1691-1695.	3.8	25
54	Modification of polyolefins with silicone copolymers. I. Processing behavior and surface characterization of PP and HDPE blended with silicone copolymers. <i>Journal of Applied Polymer Science</i> , 2002, 83, 1625-1634.	2.6	25

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55	3D printed poly(lactic acid) scaffolds modified with chitosan and hydroxyapatite for bone repair applications. <i>Materials Today Communications</i> , 2020, 25, 101515.	1.9	25
56	Denver developmental screening test II for early identification of the infants who will develop major neurological deficit as a sequela of hypoxic-ischemic encephalopathy. <i>Pediatrics International</i> , 2001, 43, 400-404.	0.5	24
57	Lack of association between plasma leptin levels and appetite in children with iron deficiency. <i>Nutrition</i> , 2001, 17, 657-659.	2.4	24
58	Effect of reaction solvent on hydroxyapatite synthesis in sol-gel process. <i>Royal Society Open Science</i> , 2017, 4, 171098.	2.4	24
59	Effect of UV/ozone irradiation on the surface properties of electrospun webs and films prepared from polydimethylsiloxane-urea copolymers. <i>Applied Surface Science</i> , 2012, 258, 4246-4253.	6.1	23
60	Simple processes for the preparation of superhydrophobic polymer surfaces. <i>Polymer</i> , 2016, 99, 580-593.	3.8	23
61	Premarital Screening of Hemoglobinopathies: A Pilot Study in Turkey. <i>Human Heredity</i> , 1996, 46, 112-114.	0.8	22
62	Evaluation of Cerebral Maturation by Visual and Quantitative Analysis of Resting Electroencephalography in Children With Primary Nocturnal Enuresis. <i>Journal of Child Neurology</i> , 2001, 16, 714-718.	1.4	22
63	Multiscale Modeling of the Morphology and Properties of Segmented Silicone-Urea Copolymers. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2012, 22, 604-616.	3.7	22
64	Surface properties of polyamides modified with reactive polydimethylsiloxane oligomers and copolymers. <i>Polymer</i> , 2003, 44, 7271-7279.	3.8	21
65	A DSC kinetic study of the epoxy network system bisphenol-A diglycidylether-bis(4-aminocyclohexyl)methane. <i>Polymer Bulletin</i> , 1981, 4, 323-327.	3.3	20
66	Influence of Annealing on the Performance of Short Glass Fiber-reinforced Polyphenylene Sulfide (PPS) Composites. <i>Journal of Composite Materials</i> , 2005, 39, 21-33.	2.4	20
67	Hydrophilization of silicone-urea copolymer surfaces by UV/ozone: Influence of PDMS molecular weight on surface oxidation and hydrophobic recovery. <i>Polymer</i> , 2013, 54, 6665-6675.	3.8	20
68	Reversible switching of wetting properties and erasable patterning of polymer surfaces using plasma oxidation and thermal treatment. <i>Applied Surface Science</i> , 2018, 441, 841-852.	6.1	20
69	Wetting behavior of superhydrophobic poly(methyl methacrylate). <i>Progress in Organic Coatings</i> , 2018, 125, 530-536.	3.9	18
70	Rheology and processing of BaSO ₄ -filled medical-grade thermoplastic polyurethane. <i>Polymer Engineering and Science</i> , 2004, 44, 1941-1948.	3.1	17
71	PIB-based polyurethanes. IV. The morphology of polyurethanes containing soft co-segments*. <i>Journal of Polymer Science Part A</i> , 2009, 47, 6180-6190.	2.3	15
72	Effect of soft segment molecular weight on the glass transition, crystallinity, molecular mobility and segmental dynamics of poly(ethylene oxide) based poly(urethane-urea) copolymers. <i>RSC Advances</i> , 2017, 7, 40745-40754.	3.6	15

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73	Effect of filler content on the structureâ€”property behavior of poly(ethylene oxide) based polyurethaneureaâ€”silica nanocomposites. <i>Polymer Engineering and Science</i> , 2018, 58, 1097-1107.	3.1	15
74	Spontaneous formation of microporous poly(lactic acid) coatings. <i>Progress in Organic Coatings</i> , 2018, 125, 249-256.	3.9	15
75	Bilateral adrenal cystic neuroblastoma with massive hepatomegaly and intracystic hemorrhage. <i>Pediatric Blood and Cancer</i> , 2005, 44, 525-526.	1.5	14
76	3D Printed Biodegradable Polyurethaneurea Elastomer Recapitulates Skeletal Muscle Structure and Function. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 5189-5205.	5.2	14
77	Synthesis and characterization of free radical cured Bis-methacryloxy bisphenol-A epoxy networks. <i>Polymer Composites</i> , 1983, 4, 120-125.	4.6	13
78	Influence of polymerization procedure on polymer topology and other structural properties in highly branched polymers obtained by A2+B3 approach. <i>Polymer</i> , 2008, 49, 1414-1424.	3.8	13
79	Catalyst effect on the transesterification reactions between polycarbonate and polycaprolactone-B-polydimethylsiloxane triblock copolymers. <i>Polymer Bulletin</i> , 1999, 43, 207-214.	3.3	12
80	Antibacterial Silicone-Urea/Organoclay Nanocomposites. <i>Silicon</i> , 2009, 1, 183-190.	3.3	12
81	Assessment of Cardiac Functions in Sickle Cell Anemia with Doppler Myocardial Performance Index. <i>Journal of Tropical Pediatrics</i> , 2010, 56, 195-197.	1.5	12
82	Critical parameters controlling the properties of monolithic poly(lactic acid) foams prepared by thermally induced phase separation. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 98-108.	2.1	12
83	Modification of polyolefins with silicone copolymers. II. Thermal, mechanical, and tribological behavior of PP and HDPE blended with silicone copolymers. <i>Journal of Applied Polymer Science</i> , 2002, 84, 535-540.	2.6	10
84	Exploring Urea Phase Connectivity in Molded Flexible Polyurethane Foam Formulations Using LiBr as a Probe. <i>Journal of Macromolecular Science - Physics</i> , 2003, 42, 1125-1139.	1.0	9
85	Luminescent Nd ³⁺ doped siliconeâ€”urea copolymers. <i>Polymer</i> , 2006, 47, 982-990.	3.8	9
86	3D coffee stains. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2360-2367.	5.9	9
87	Effect of surface modification of colloidal silica nanoparticles on the rigid amorphous fraction and mechanical properties of amorphous polyurethaneâ€”ureaâ€”silica nanocomposites. <i>Journal of Polymer Science Part A</i> , 2019, 57, 2543-2556.	2.3	7
88	Anomalous dilute solution properties of segmented polydimethylsiloxaneâ€”polyurea copolymers in isopropyl alcohol. <i>Polymer</i> , 2006, 47, 1179-1186.	3.8	6
89	Severe Infantile Hypotonia With Ethylmalonic Aciduria: Case Report. <i>Journal of Child Neurology</i> , 2008, 23, 703-705.	1.4	5
90	Two New Polymers as Candidates for Rhinoplasty Allografts: An Experimental Study in a Rabbit Model. <i>Annals of Otolaryngology, Rhinology and Laryngology</i> , 2013, 122, 474-479.	1.1	5

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91	Geometric Confinement Controls Stiffness, Strength, Extensibility, and Toughness in Poly(urethane-urea) Copolymers. <i>Macromolecules</i> , 2021, 54, 4704-4725.	4.8	5
92	Effect of gestational age on plasma fibronectin concentrations in the neonate. <i>Pediatrics International</i> , 2001, 43, 26-28.	0.5	4
93	Silicone-Urea Copolymers Modified with Polyethers. <i>ACS Symposium Series</i> , 2007, , 100-115.	0.5	4
94	Stiff, Strong, Tough, and Highly Stretchable Hydrogels Based on Dual Stimuli-Responsive Semicrystalline Poly(urethane-urea) Copolymers. <i>ACS Applied Polymer Materials</i> , 2021, 3, 5683-5695.	4.4	4
95	High Strength Silicone-Urethane Copolymers: Synthesis and Properties. <i>ACS Symposium Series</i> , 2000, , 395-407.	0.5	3
96	Erbium(III)-doped polyurethaneureas: Novel broadband ultraviolet-to-visible converters. <i>Journal of Applied Polymer Science</i> , 2010, 117, 378-383.	2.6	2
97	Biocompatibilit� e durata in vivo di cinque nuovi polimeri sintetici testati su coniglio. <i>Acta Otorhinolaryngologica Italica</i> , 2016, 36, 101-106.	1.5	2
98	The Study on the First Year Students of the Faculty of Medicine to Assess Their Health Compromising Behaviors and Knowledge About Reproductive Health. <i>Turkiye Klinikleri Journal of Medical Sciences</i> , 2010, 30, 1533-1542.	0.1	2
99	Polyurethanes: Design, synthesis and structure-property behavior of versatile materials. <i>Hacettepe Journal of Biology and Chemistry</i> , 2020, 48, 425-445.	0.9	1
100	Copolymerization of fluorinated acrylic monomers and sodium-p-styrene sulfonate. <i>Journal of Fluorine Chemistry</i> , 1982, 21, 66.	1.7	0
101	Informal Undergraduate Polymer Research Program at Koc University Chemistry Department. <i>Polymer Reviews</i> , 2008, 48, 633-641.	10.9	0
102	Luminescence Characteristics of Nd ³⁺ -Doped Silicone-Urea Copolymers. , 2006, , .		0
103	Siloxane Terpolymers as Compatibilizers for Polymer Blends. , 1997, , 195-209.		0
104	All-protein 3D coffee stain lasers. , 2018, , .		0