

Emel Yilgor

List of Publications by Year in descending order

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104
papers

6,280
citations

81900

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all docs

104
docs citations

104
times ranked

5977
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Geometric Confinement Controls Stiffness, Strength, Extensibility, and Toughness in Poly(urethane-urea) Copolymers. <i>Macromolecules</i> , 2021, 54, 4704-4725.	4.8	5
3	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
4	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
5	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
6	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
7	Electrospun polycaprolactone/silk fibroin nanofibrous bioactive scaffolds for tissue engineering applications. <i>Polymer</i> , 2019, 168, 86-94.	3.8	74
8	Effect of surface modification of colloidal silica nanoparticles on the rigid amorphous fraction and mechanical properties of amorphous polyurethane-urea-silica nanocomposites. <i>Journal of Polymer Science Part A</i> , 2019, 57, 2543-2556.	2.3	7
9	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
10	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
11	Preparation of monolithic polycaprolactone foams with controlled morphology. <i>Polymer</i> , 2018, 136, 166-178.	3.8	27
12	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
13	Effect of filler content on the structure-property behavior of poly(ethylene oxide) based polyurethaneurea-silica nanocomposites. <i>Polymer Engineering and Science</i> , 2018, 58, 1097-1107.	3.1	15
14	Spontaneous formation of microporous poly(lactic acid) coatings. <i>Progress in Organic Coatings</i> , 2018, 125, 249-256.	3.9	15
15	Wetting behavior of superhydrophobic poly(methyl methacrylate). <i>Progress in Organic Coatings</i> , 2018, 125, 530-536.	3.9	18
16	All-protein 3D coffee stain lasers. , 2018, , .		0
17	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
18	3D coffee stains. <i>Materials Chemistry Frontiers</i> , 2017, 1, 2360-2367.	5.9	9

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19	Intercalated chitosan/hydroxyapatite nanocomposites: Promising materials for bone tissue engineering applications. <i>Carbohydrate Polymers</i> , 2017, 175, 38-46.	10.2	130
20	Effect of reaction solvent on hydroxyapatite synthesis in sol-gel process. <i>Royal Society Open Science</i> , 2017, 4, 171098.	2.4	24
21	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
22	Simple processes for the preparation of superhydrophobic polymer surfaces. <i>Polymer</i> , 2016, 99, 580-593.	3.8	23
23	Fabrication of rigid poly(lactic acid) foams via thermally induced phase separation. <i>Polymer</i> , 2016, 107, 240-248.	3.8	61
24	Synthesis and structure-property behavior of polycaprolactone-polydimethylsiloxane-polycaprolactone triblock copolymers. <i>Polymer</i> , 2016, 83, 138-153.	3.8	32
25	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
26	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
27	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
28	Silicone containing copolymers: Synthesis, properties and applications. <i>Progress in Polymer Science</i> , 2014, 39, 1165-1195.	24.7	397
29	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
30	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
31	Polyurethaneurea-silica nanocomposites: Preparation and investigation of the structure-property behavior. <i>Polymer</i> , 2013, 54, 5310-5320.	3.8	53
32	Two New Polymers as Candidates for Rhinoplasty Allografts: An Experimental Study in a Rabbit Model. <i>Annals of Otology, Rhinology and Laryngology</i> , 2013, 122, 474-479.	1.1	5
33	Tunable Wetting of Polymer Surfaces. <i>Langmuir</i> , 2012, 28, 14808-14814.	3.5	44
34	The effect of varying soft and hard segment length on the structure-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
35	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
36	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

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37	Multiscale Modeling of the Morphology and Properties of Segmented Silicone-Urea Copolymers. Journal of Inorganic and Organometallic Polymers and Materials, 2012, 22, 604-616.	3.7	22
38	Facile preparation of superhydrophobic polymer surfaces. Polymer, 2012, 53, 1180-1188.	3.8	99
39	Fumed silica filled poly(dimethylsiloxane-urea) segmented copolymers: Preparation and properties. Polymer, 2011, 52, 4189-4198.	3.8	51
40	Influence of soft segment molecular weight on the mechanical hysteresis and set behavior of silicone-urea copolymers with low hard segment contents. Polymer, 2011, 52, 266-274.	3.8	73
41	Erbium(III)-doped polyurethaneureas: Novel broadband ultraviolet-visible converters. Journal of Applied Polymer Science, 2010, 117, 378-383.	2.6	2
42	Assessment of Cardiac Functions in Sickle Cell Anemia with Doppler Myocardial Performance Index. Journal of Tropical Pediatrics, 2010, 56, 195-197.	1.5	12
43	The Study on the First Year Students of the Faculty of Medicine to Assess Their Health Compromising Behaviors and Knowledge About Reproductive Health. Turkiye Klinikleri Journal of Medical Sciences, 2010, 30, 1533-1542.	0.1	2
44	Antibacterial Silicone-Urea/Organoclay Nanocomposites. Silicon, 2009, 1, 183-190.	3.3	12
45	Polyisobutylene-based segmented polyureas. I. Synthesis of hydrolytically and oxidatively stable polyureas. Journal of Polymer Science Part A, 2009, 47, 38-48.	2.3	47
46	Polyisobutylene-based polyurethanes. II. Polyureas containing mixed PIB/PTMO soft segments. Journal of Polymer Science Part A, 2009, 47, 2787-2797.	2.3	48
47	Polyisobutylene-based polyurethanes. III. Polyurethanes containing PIB/PTMO soft segments. Journal of Polymer Science Part A, 2009, 47, 5278-5290.	2.3	31
48	PIB-based polyurethanes. IV. The morphology of polyurethanes containing soft segments*. Journal of Polymer Science Part A, 2009, 47, 6180-6190.	2.3	15
49	Time-dependent morphology development in segmented polyetherurea copolymers based on aromatic diisocyanates. Journal of Polymer Science, Part B: Polymer Physics, 2009, 47, 471-483.	2.1	48
50	Contribution of soft segment entanglement on the tensile properties of silicone-urea copolymers with low hard segment contents. Polymer, 2009, 50, 4432-4437.	3.8	72
51	Real time mechano-optical study on deformation behavior of PTMO/CHDI-based polyetherurethanes under uniaxial extension. Polymer, 2009, 50, 4644-4655.	3.8	26
52	Influence of polymerization procedure on polymer topology and other structural properties in highly branched polymers obtained by A2+B3 approach. Polymer, 2008, 49, 1414-1424.	3.8	13
53	Probing the urea hard domain connectivity in segmented, non-chain extended polyureas using hydrogen-bond screening agents. Polymer, 2008, 49, 174-179.	3.8	52
54	Informal Undergraduate Polymer Research Program at Koc University Chemistry Department. Polymer Reviews, 2008, 48, 633-641.	10.9	0

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55	Severe Infantile Hypotonia With Ethylmalonic Aciduria: Case Report. <i>Journal of Child Neurology</i> , 2008, 23, 703-705.	1.4	5
56	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
57	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
58	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
59	Silicone-Urea Copolymers Modified with Polyethers. <i>ACS Symposium Series</i> , 2007, , 100-115.	0.5	4
60	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
61	Luminescent Nd ³⁺ doped siliconeâ€urea copolymers. <i>Polymer</i> , 2006, 47, 982-990.	3.8	9
62	Anomalous dilute solution properties of segmented polydimethylsiloxaneâ€polyurea copolymers in isopropyl alcohol. <i>Polymer</i> , 2006, 47, 1179-1186.	3.8	6
63	Luminescence Characteristics of Nd ³⁺ -Doped Silicone-Urea Copolymers. , 2006, , .		0
64	Understanding the structure development in hyperbranched polymers prepared by oligomeric A ₂ +B ₃ approach: comparison of experimental results and simulations. <i>Polymer</i> , 2005, 46, 4533-4543.	3.8	71
65	Role of chain symmetry and hydrogen bonding in segmented copolymers with monodisperse hard segments. <i>Polymer</i> , 2005, 46, 7317-7322.	3.8	148
66	Structureâ€property behavior of segmented polyurethaneurea copolymers based on an ethyleneâ€butylene soft segment. <i>Polymer</i> , 2005, 46, 10191-10201.	3.8	60
67	Structureâ€property behavior of poly(dimethylsiloxane) based segmented polyurea copolymers modified with poly(propylene oxide). <i>Polymer</i> , 2005, 46, 8185-8193.	3.8	67
68	A comparative study of the structureâ€property behavior of highly branched segmented poly(urethane) Tj ETQq0 0 0 rgBT /Overlock 10	3.8	39
69	Bilateral adrenal cystic neuroblastoma with massive hepatomegaly and intracystic hemorrhage. <i>Pediatric Blood and Cancer</i> , 2005, 44, 525-526.	1.5	14
70	Structure â€” 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
71	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
72	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

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73	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
74	Rheology and processing of BaSO ₄ -filled medical-grade thermoplastic polyurethane. <i>Polymer Engineering and Science</i> , 2004, 44, 1941-1948.	3.1	17
75	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
76	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
77	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
78	A New Generation of Highly Branched Polymers: Hyperbranched, Segmented Poly(urethane urea) Elastomers. <i>Macromolecules</i> , 2004, 37, 7081-7084.	4.8	84
79	Surface properties of polyamides modified with reactive polydimethylsiloxane oligomers and copolymers. <i>Polymer</i> , 2003, 44, 7271-7279.	3.8	21
80	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
81	Rheology and extrusion of medical-grade thermoplastic polyurethane. <i>Polymer Engineering and Science</i> , 2003, 43, 1863-1877.	3.1	41
82	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
83	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
84	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
85	Electrospinning of polyurethane fibers. <i>Polymer</i> , 2002, 43, 3303-3309.	3.8	942
86	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
87	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
88	Effect of gestational age on plasma fibronectin concentrations in the neonate. <i>Pediatrics International</i> , 2001, 43, 26-28.	0.5	4
89	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
90	Hydrogen bonding: a critical parameter in designing silicone copolymers. <i>Polymer</i> , 2001, 42, 7953-7959.	3.8	111

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91	Lack of association between plasma leptin levels and appetite in children with iron deficiency. Nutrition, 2001, 17, 657-659.	2.4	24
92	Evaluation of Cerebral Maturation by Visual and Quantitative Analysis of Resting Electroencephalography in Children With Primary Nocturnal Enuresis. Journal of Child Neurology, 2001, 16, 714-718.	1.4	22
93	Comparison of hydrogen bonding in polydimethylsiloxane and polyether based urethane and urea copolymers. Polymer, 2000, 41, 849-857.	3.8	226
94	High Strength Silicone-Urethane Copolymers: Synthesis and Properties. ACS Symposium Series, 2000, , 395-407.	0.5	3
95	Hydrophilic polyurethaneurea membranes: influence of soft block composition on the water vapor permeation rates. Polymer, 1999, 40, 5575-5581.	3.8	78
96	Catalyst effect on the transesterification reactions between polycarbonate and polycaprolactone-B-polydimethylsiloxane triblock copolymers. Polymer Bulletin, 1999, 43, 207-214.	3.3	12
97	Thermal stabilities of end groups in hydroxyalkyl terminated polydimethylsiloxane oligomers. Polymer Bulletin, 1998, 40, 525-532.	3.3	34
98	1,3-bis(β-aminopropyl)tetramethylsiloxane modified epoxy resins: curing and characterization. Polymer, 1998, 39, 1691-1695.	3.8	25
99	Siloxane Terpolymers as Compatibilizers for Polymer Blends. , 1997, , 195-209.		0
100	Premarital Screening of Hemoglobinopathies: A Pilot Study in Turkey. Human Heredity, 1996, 46, 112-114.	0.8	22
101	Novel triblock siloxane copolymers: Synthesis, characterization, and their use as surface modifying additives. Journal of Polymer Science Part A, 1989, 27, 3673-3690.	2.3	73
102	Synthesis and characterization of free radical cured Bis-methacryloxy bisphenol-A epoxy networks. Polymer Composites, 1983, 4, 120-125.	4.6	13
103	Copolymerization of fluorinated acrylic monomers and sodium-p-styrene sulfonate. Journal of Fluorine Chemistry, 1982, 21, 66.	1.7	0
104	A DSC kinetic study of the epoxy network system bisphenol-A diglycidylether-bis(4-aminocyclohexyl)methane. Polymer Bulletin, 1981, 4, 323-327.	3.3	20