

Nicholas A Peppas

List of Publications by Year in descending order

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147
papers

16,902
citations

28190

55
h-index

15218

126
g-index

155
all docs

155
docs citations

155
times ranked

20300
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering precision nanoparticles for drug delivery. <i>Nature Reviews Drug Discovery</i> , 2021, 20, 101-124.	21.5	3,154
2	Polymers for Drug Delivery Systems. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2010, 1, 149-173.	3.3	1,205
3	Nanocomposite hydrogels for biomedical applications. <i>Biotechnology and Bioengineering</i> , 2014, 111, 441-453.	1.7	916
4	Stimulus-responsive hydrogels: Theory, modern advances, and applications. <i>Materials Science and Engineering Reports</i> , 2015, 93, 1-49.	14.8	811
5	A review of current nanoparticle and targeting moieties for the delivery of cancer therapeutics. <i>European Journal of Pharmaceutical Sciences</i> , 2013, 48, 416-427.	1.9	640
6	Synthesis and Characterization of pH- and Temperature-Sensitive Poly(methacrylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (acid)/F 102-107.	2.2	485
7	Mathematical models in drug delivery: How modeling has shaped the way we design new drug delivery systems. <i>Journal of Controlled Release</i> , 2014, 190, 75-81.	4.8	395
8	Analyte-Responsive Hydrogels: Intelligent Materials for Biosensing and Drug Delivery. <i>Accounts of Chemical Research</i> , 2017, 50, 170-178.	7.6	386
9	Bone tissue engineering via growth factor delivery: from scaffolds to complex matrices. <i>International Journal of Energy Production and Management</i> , 2018, 5, 197-211.	1.9	368
10	Quantum dots in biomedical applications. <i>Acta Biomaterialia</i> , 2019, 94, 44-63.	4.1	310
11	Co-delivery of siRNA and therapeutic agents using nanocarriers to overcome cancer resistance. <i>Nano Today</i> , 2012, 7, 367-379.	6.2	292
12	Hydrogels and Scaffolds for Immunomodulation. <i>Advanced Materials</i> , 2014, 26, 6530-6541.	11.1	286
13	Current state and challenges in developing oral vaccines. <i>Advanced Drug Delivery Reviews</i> , 2017, 114, 116-131.	6.6	270
14	Responsive Theranostic Systems: Integration of Diagnostic Imaging Agents and Responsive Controlled Release Drug Delivery Carriers. <i>Accounts of Chemical Research</i> , 2011, 44, 1061-1070.	7.6	256
15	Dynamic swelling behavior of pH-sensitive anionic hydrogels used for protein delivery. <i>Journal of Applied Polymer Science</i> , 2003, 89, 1606-1613.	1.3	242
16	Nanoscale technology of mucoadhesive interactions. <i>Advanced Drug Delivery Reviews</i> , 2004, 56, 1675-1687.	6.6	216
17	Expert opinion: Responsive polymer nanoparticles in cancer therapy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 80, 241-246.	2.0	180
18	Novel oral insulin delivery systems based on complexation polymer hydrogels: Single and multiple administration studies in type 1 and 2 diabetic rats. <i>Journal of Controlled Release</i> , 2006, 110, 587-594.	4.8	172

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19	Surgical materials: Current challenges and nano-enabled solutions. <i>Nano Today</i> , 2014, 9, 574-589.	6.2	158
20	The swollen polymer network hypothesis: Quantitative models of hydrogel swelling, stiffness, and solute transport. <i>Progress in Polymer Science</i> , 2020, 105, 101243.	11.8	152
21	Hydrogels for oral delivery of therapeutic proteins. <i>Expert Opinion on Biological Therapy</i> , 2004, 4, 881-887.	1.4	141
22	Multi-responsive hydrogels for drug delivery and tissue engineering applications. <i>International Journal of Energy Production and Management</i> , 2014, 1, 57-65.	1.9	135
23	Hydrogel-based biosensors and sensing devices for drug delivery. <i>Journal of Controlled Release</i> , 2016, 240, 142-150.	4.8	129
24	Preparation and Characterization of pH-Responsive Poly(methacrylic acid-g-ethylene glycol) Nanospheres. <i>Macromolecules</i> , 2002, 35, 3668-3674.	2.2	128
25	Tuning the biomimetic behavior of scaffolds for regenerative medicine through surface modifications. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2019, 13, 1275-1293.	1.3	128
26	Physicochemical behavior and cytotoxic effects of p(methacrylic acid-g-ethylene glycol) nanospheres for oral delivery of proteins. <i>Journal of Controlled Release</i> , 2002, 80, 197-205.	4.8	123
27	Protein-Imprinted Polymers: The Shape of Things to Come?. <i>Chemistry of Materials</i> , 2017, 29, 5753-5761.	3.2	112
28	Advanced engineered nanoparticulate platforms to address key biological barriers for delivering chemotherapeutic agents to target sites. <i>Advanced Drug Delivery Reviews</i> , 2020, 167, 170-188.	6.6	112
29	Enzyme- and pH-Responsive Microencapsulated Nanogels for Oral Delivery of siRNA to Induce TNF- α Knockdown in the Intestine. <i>Biomacromolecules</i> , 2016, 17, 788-797.	2.6	108
30	Designing the new generation of intelligent biocompatible carriers for protein and peptide delivery. <i>Acta Pharmaceutica Sinica B</i> , 2018, 8, 147-164.	5.7	107
31	Nanoscale analysis of protein and peptide absorption: Insulin absorption using complexation and pH-sensitive hydrogels as delivery vehicles. <i>European Journal of Pharmaceutical Sciences</i> , 2006, 29, 183-197.	1.9	95
32	pH-responsive and enzymatically-responsive hydrogel microparticles for the oral delivery of therapeutic proteins: Effects of protein size, crosslinking density, and hydrogel degradation on protein delivery. <i>Journal of Controlled Release</i> , 2016, 221, 18-25.	4.8	95
33	Soft Nanoparticle Functionalization of Natural Hydrogels for Tissue Engineering Applications. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900506.	3.9	95
34	A tumor-to-lymph procedure navigated versatile gel system for combinatorial therapy against tumor recurrence and metastasis. <i>Science Advances</i> , 2020, 6, .	4.7	95
35	Intelligent nanoparticles for advanced drug delivery in cancer treatment. <i>Current Opinion in Chemical Engineering</i> , 2015, 7, 84-92.	3.8	90
36	Historical perspective on advanced drug delivery: How engineering design and mathematical modeling helped the field mature. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 5-9.	6.6	88

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37	Intelligent therapeutics: biomimetic systems and nanotechnology in drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2004, 56, 1529-1531.	6.6	83
38	A combinational chemo-immune therapy using an enzyme-sensitive nanoplatform for dual-drug delivery to specific sites by cascade targeting. <i>Science Advances</i> , 2021, 7, .	4.7	81
39	Networks for recognition of biomolecules: molecular imprinting and micropatterning poly(ethylene) Tj ETQq1 1 0.784314 rgBT/Overl 1.6	1.6	80
40	Label-Free Detection of Tear Biomarkers Using Hydrogel-Coated Gold Nanoshells in a Localized Surface Plasmon Resonance-Based Biosensor. <i>ACS Nano</i> , 2018, 12, 9342-9354.	7.3	79
41	Complexation hydrogels for intestinal delivery of interferon \hat{I}^2 and calcitonin. <i>Journal of Controlled Release</i> , 2009, 134, 98-102.	4.8	77
42	Micropatterning of biomedical polymer surfaces by novel UV polymerization techniques. <i>Journal of Biomedical Materials Research Part B</i> , 2001, 56, 351-360.	3.0	76
43	Modular fabrication of intelligent material-tissue interfaces for bioinspired and biomimetic devices. <i>Progress in Materials Science</i> , 2019, 106, 100589.	16.0	72
44	Messenger RNA-based vaccines: Past, present, and future directions in the context of the COVID-19 pandemic. <i>Advanced Drug Delivery Reviews</i> , 2021, 179, 114000.	6.6	71
45	Poly(ethylene glycol)-containing Hydrogels for Oral Protein Delivery Applications. <i>Biomedical Microdevices</i> , 2003, 5, 333-341.	1.4	70
46	pH-Responsive poly(itaconic acid-co-N-vinylpyrrolidone) hydrogels with reduced ionic strength loading solutions offer improved oral delivery potential for high isoelectric point-exhibiting therapeutic proteins. <i>International Journal of Pharmaceutics</i> , 2014, 471, 83-91.	2.6	70
47	Monodisperse nanoparticles of poly(ethylene glycol) macromers and N-isopropyl acrylamide for biomedical applications. <i>Journal of Applied Polymer Science</i> , 2003, 87, 1678-1684.	1.3	67
48	Molecular Aspects of Mucoadhesive Carrier Development for Drug Delivery and Improved Absorption. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2009, 20, 1-20.	1.9	66
49	Mimicking biological delivery through feedback-controlled drug release systems based on molecular imprinting. <i>AIChE Journal</i> , 2009, 55, 1311-1324.	1.8	64
50	Synthetic networks with tunable responsiveness, biodegradation, and molecular recognition for precision medicine applications. <i>Science Advances</i> , 2019, 5, eaax7946.	4.7	64
51	Molecular interactions in poly(methacrylic acid)/poly(N-isopropyl acrylamide) interpenetrating polymer networks. <i>Journal of Applied Polymer Science</i> , 2001, 82, 1077-1082.	1.3	60
52	Surface-Modified P(HEMA-co-MAA) Nanogel Carriers for Oral Vaccine Delivery: Design, Characterization, and In Vitro Targeting Evaluation. <i>Biomacromolecules</i> , 2014, 15, 2725-2734.	2.6	59
53	Kinetic Gelation Modeling of Controlled Radical Polymerizations. <i>Macromolecules</i> , 2000, 33, 5137-5142.	2.2	58
54	Temperature-responsive polymer-gold nanocomposites as intelligent therapeutic systems. <i>Journal of Biomedical Materials Research - Part A</i> , 2007, 83A, 692-695.	2.1	57

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55	Preparation and Characterization of P(MAA-g-EG) Nanospheres for Protein Delivery Applications. <i>Journal of Nanoparticle Research</i> , 2002, 4, 73-81.	0.8	53
56	Biomaterials for Sequestration of Growth Factors and Modulation of Cell Behavior. <i>Advanced Functional Materials</i> , 2020, 30, 1909011.	7.8	51
57	Polycationic Nanoparticles for siRNA Delivery: Comparing ARGET ATRP and UV-Initiated Formulations. <i>ACS Nano</i> , 2014, 8, 2908-2917.	7.3	50
58	Advanced architectures in the design of responsive polymers for cancer nanomedicine. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46154.	1.3	50
59	Engineered microscale hydrogels for drug delivery, cell therapy, and sequencing. <i>Biomedical Microdevices</i> , 2019, 21, 31.	1.4	50
60	Polybasic Nanomatrices Prepared by UV-Initiated Photopolymerization. <i>Macromolecules</i> , 2009, 42, 3391-3398.	2.2	44
61	Theranostic agents for intracellular gene delivery with spatiotemporal imaging. <i>Nano Today</i> , 2013, 8, 21-38.	6.2	44
62	Compositional Effects on Network Structure of Highly Cross-Linked Copolymers of PEG-Containing Multiacrylates with Acrylic Acid. <i>Macromolecules</i> , 1999, 32, 6139-6148.	2.2	40
63	Crystal unfolding and chain disentanglement during semicrystalline polymer dissolution. <i>AICHE Journal</i> , 1997, 43, 870-876.	1.8	39
64	A Closer Look at the Impact of Molecular Imprinting on Adsorption Capacity and Selectivity for Protein Templates. <i>Biomacromolecules</i> , 2016, 17, 4045-4053.	2.6	37
65	Molecularly Imprinted Intelligent Scaffolds for Tissue Engineering Applications. <i>Tissue Engineering - Part B: Reviews</i> , 2017, 23, 27-43.	2.5	37
66	Tunable, responsive nanogels containing t-butyl methacrylate and 2-(t-butylamino)ethyl methacrylate. <i>Polymer</i> , 2013, 54, 3784-3795.	1.8	36
67	Advanced biomedical hydrogels: molecular architecture and its impact on medical applications. <i>International Journal of Energy Production and Management</i> , 2021, 8, rbab060.	1.9	36
68	Re-evaluating the importance of carbohydrates as regenerative biomaterials. <i>International Journal of Energy Production and Management</i> , 2019, 6, 1-12.	1.9	35
69	Applications of biomimetic systems in drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2005, 2, 1085-1096.	2.4	34
70	Synthesis and Properties of Lightly Crosslinked Poly((meth)acrylic acid) Microparticles Prepared by Free Radical Precipitation Polymerization. <i>Polymer Bulletin</i> , 2006, 57, 11-20.	1.7	34
71	Novel strategy for the determination of UCST-like microgels network structure: effect on swelling behavior and rheology. <i>Soft Matter</i> , 2012, 8, 337-346.	1.2	34
72	Charged poly(N-isopropylacrylamide) nanogels for use as differential protein receptors in a turbidimetric sensor array. <i>Analyst</i> , 2017, 142, 3183-3193.	1.7	34

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73	Enhanced Core Hydrophobicity, Functionalization and Cell Penetration of Polybasic Nanomatrices. <i>Pharmaceutical Research</i> , 2009, 26, 51-60.	1.7	32
74	Impact of absorption and transport on intelligent therapeutics and nanoscale delivery of protein therapeutic agents. <i>Chemical Engineering Science</i> , 2009, 64, 4553-4565.	1.9	32
75	Synthesis and characterization of pH-responsive nanoscale hydrogels for oral delivery of hydrophobic therapeutics. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016, 108, 196-213.	2.0	32
76	Complexation hydrogels as potential carriers in oral vaccine delivery systems. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 112, 138-142.	2.0	31
77	Transport and delivery of interferon- β through epithelial tight junctions via pH-responsive poly(methacrylic acid-grafted-ethylene glycol) nanoparticles. <i>Journal of Drug Targeting</i> , 2019, 27, 582-589.	2.1	31
78	Poly(acrylic acid)-poly(vinyl alcohol) copolymers with superabsorbent properties. <i>Journal of Applied Polymer Science</i> , 1998, 70, 817-829.	1.3	30
79	Vision for Functionally Decorated and Molecularly Imprinted Polymers in Regenerative Engineering. <i>Regenerative Engineering and Translational Medicine</i> , 2017, 3, 166-175.	1.6	30
80	Epitope-imprinted polymers: Design principles of synthetic binding partners for natural biomacromolecules. <i>Science Advances</i> , 2021, 7, eabi9884.	4.7	29
81	<i>110th Anniversary</i> : Nanoparticle Mediated Drug Delivery for the Treatment of Alzheimer's Disease: Crossing the Blood-Brain Barrier. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 15079-15087.	1.8	28
82	Dynamic swelling behavior of interpenetrating polymer networks in response to temperature and pH. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	27
83	β -Galactosylceramide and peptide-based nano-vaccine synergistically induced a strong tumor suppressive effect in melanoma. <i>Acta Biomaterialia</i> , 2018, 76, 193-207.	4.1	27
84	Miniaturized Needle Array-Mediated Drug Delivery Accelerates Wound Healing. <i>Advanced Healthcare Materials</i> , 2021, 10, e2001800.	3.9	27
85	Kinetics of Copolymerization of PEG-Containing Multiacrylates with Acrylic Acid. <i>Macromolecules</i> , 1999, 32, 6149-6158.	2.2	26
86	Complexation Hydrogels as Oral Delivery Vehicles of Therapeutic Antibodies: An in Vitro and ex Vivo Evaluation of Antibody Stability and Bioactivity. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 10197-10205.	1.8	26
87	Combination Strategy with Complexation Hydrogels and Cell-Penetrating Peptides for Oral Delivery of Insulin. <i>Biological and Pharmaceutical Bulletin</i> , 2018, 41, 811-814.	0.6	25
88	Immobilization of nanocarriers within a porous chitosan scaffold for the sustained delivery of growth factors in bone tissue engineering applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2020, 108, 1122-1135.	2.1	25
89	Intelligent cognitive systems in nanomedicine. <i>Current Opinion in Chemical Engineering</i> , 2014, 4, 105-113.	3.8	23
90	Relaxational behavior and swelling-pH master curves of poly[(diethylaminoethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf_50 62 Td (methacryl	1.6	21

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91	Insulin release dynamics from poly(diethylaminoethyl methacrylate) hydrogel systems. <i>AIChE Journal</i> , 2013, 59, 3578-3585.	1.8	21
92	Tunable poly(methacrylic acid-co-acrylamide) nanoparticles through inverse emulsion polymerization. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 1677-1686.	2.1	21
93	Molecular recognition with soft biomaterials. <i>Soft Matter</i> , 2020, 16, 856-869.	1.2	21
94	Epitope-Imprinted Nanoparticles as Transforming Growth Factor- β 3 Sequestering Ligands to Modulate Stem Cell Fate. <i>Advanced Functional Materials</i> , 2021, 31, 2003934.	7.8	21
95	Solute Transport Dependence on 3D Geometry of Hydrogel Networks. <i>Macromolecular Chemistry and Physics</i> , 2021, 222, 2100138.	1.1	21
96	Overcoming barriers in non-viral gene delivery for neurological applications. <i>Nanoscale</i> , 2022, 14, 3698-3719.	2.8	21
97	Cytoplasmic delivery of functional siRNA using pH-Responsive nanoscale hydrogels. <i>International Journal of Pharmaceutics</i> , 2019, 562, 249-257.	2.6	20
98	QCM-D assay for quantifying the swelling, biodegradation, and protein adsorption of intelligent nanogels. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48655.	1.3	20
99	Bioadhesives for Optimization of Drug Delivery. <i>Journal of Drug Targeting</i> , 1995, 3, 183-184.	2.1	19
100	Multiresponsive polyanionic microgels with inverse pH responsive behavior by encapsulation of polycationic nanogels. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	19
101	Student award for outstanding research winner in the Ph.D. category for the 2017 society for biomaterials annual meeting and exposition, april 5-8, 2017, Minneapolis, Minnesota: Characterization of protein interactions with molecularly imprinted hydrogels that possess engineered affinity for high isoelectric point biomarkers. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 1565-1574.	2.1	19
102	Effect of network mesh size and swelling to the drug delivery from pH responsive hydrogels. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48767.	1.3	19
103	Lipid- and polymer-based nanoparticle systems for the delivery of CRISPR/Cas9. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 65, 102728.	1.4	19
104	Glucose recognition capabilities of hydroxyethyl methacrylate-based hydrogels containing poly(ethylene glycol) chains. <i>Journal of Applied Polymer Science</i> , 2007, 103, 432-441.	1.3	18
105	The challenge to improve the response of biomaterials to the physiological environment. <i>International Journal of Energy Production and Management</i> , 2016, 3, 67-71.	1.9	18
106	Innovations in Biomaterial Design toward Successful RNA Interference Therapy for Cancer Treatment. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100350.	3.9	18
107	Biomimetic materials and micropatterned structures using iniferters. <i>Advanced Drug Delivery Reviews</i> , 2004, 56, 1587-1597.	6.6	17
108	High-Throughput FRAP Analysis of Solute Diffusion in Hydrogels. <i>Macromolecules</i> , 2021, 54, 10477-10486.	2.2	17

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109	Effect of monomer type and dangling end size on polymer network synthesis. <i>Journal of Applied Polymer Science</i> , 2003, 89, 3506-3519.	1.3	16
110	In Vitro Evaluation of pH-Responsive Nanoscale Hydrogels for the Oral Delivery of Hydrophobic Therapeutics. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 10576-10590.	1.8	16
111	Development of a P((MAA <i>co</i> NP) <i>g</i> EG) Hydrogel Platform for Oral Protein Delivery: Effects of Hydrogel Composition on Environmental Response and Protein Partitioning. <i>Macromolecular Bioscience</i> , 2017, 17, 1600266.	2.1	16
112	Recent Advances in Smart Biomaterials for the Detection and Treatment of Autoimmune Diseases. <i>Advanced Functional Materials</i> , 2020, 30, 1909556.	7.8	16
113	Preparation and properties of poly(ethylene oxide) star polymers. <i>Journal of Applied Polymer Science</i> , 2003, 87, 322-327.	1.3	15
114	Design of pH-Responsive Biomaterials to Enable the Oral Route of Hematological Factor IX. <i>Annals of Biomedical Engineering</i> , 2016, 44, 1970-1982.	1.3	15
115	3D cell-laden polymers to release bioactive products in the eye. <i>Progress in Retinal and Eye Research</i> , 2019, 68, 67-82.	7.3	15
116	Control of cationic nanogel PEGylation in heterogeneous ARGET ATRP emulsion polymerization with PEG macromonomers. <i>Journal of Polymer Science Part A</i> , 2018, 56, 1536-1544.	2.5	14
117	CRISPR/Cas systems to overcome challenges in developing the next generation of T cells for cancer therapy. <i>Advanced Drug Delivery Reviews</i> , 2020, 158, 17-35.	6.6	14
118	Polymer composition primarily determines the protein recognition characteristics of molecularly imprinted hydrogels. <i>Journal of Materials Chemistry B</i> , 2020, 8, 7685-7695.	2.9	13
119	Cytocompatibility, membrane disruption, and siRNA delivery using environmentally responsive cationic nanogels. <i>Journal of Controlled Release</i> , 2021, 332, 608-619.	4.8	13
120	Biodegradable hydrophilic carriers for the oral delivery of hematological factor IX for hemophilia B treatment. <i>International Journal of Pharmaceutics</i> , 2016, 514, 220-228.	2.6	12
121	Optimization of Cationic Nanogel PEGylation to Achieve Mammalian Cytocompatibility with Limited Loss of Gram-Negative Bactericidal Activity. <i>Biomacromolecules</i> , 2020, 21, 1528-1538.	2.6	12
122	Electrostatic and Covalent Assemblies of Anionic Hydrogel-Coated Gold Nanoshells for Detection of Dry Eye Biomarkers in Human Tears. <i>Nano Letters</i> , 2021, 21, 8734-8740.	4.5	12
123	Temperature- and pH- Sensitive Hydrogels for Controlled Release of Antithrombotic Agents. <i>Materials Research Society Symposia Proceedings</i> , 1993, 331, 211.	0.1	11
124	Degradable Poly(Methyl Methacrylate)-co-Methacrylic Acid Nanoparticles for Controlled Delivery of Growth Factors for Bone Regeneration. <i>Tissue Engineering - Part A</i> , 2020, 26, 1226-1242.	1.6	11
125	Developing a Multidisciplinary Approach for Engineering Stem Cell Organoids. <i>Annals of Biomedical Engineering</i> , 2020, 48, 1895-1904.	1.3	10
126	Novel Bioadhesive Complexation Networks for Oral Protein Drug Delivery. <i>ACS Symposium Series</i> , 1998, , 156-164.	0.5	9

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127	Amphiphilic Interpenetrating Polymer Networks for the Oral Delivery of Chemotherapeutics. AICHE Journal, 2013, 59, 1472-1478.	1.8	9
128	Student Award for Outstanding Research Winner in the Undergraduate Category for the 2017 Society for Biomaterials Annual Meeting and Exposition, April 5â€“8, 2017, Minneapolis, Minnesota: Development and characterization of stimuliâ€responsive hydrogel microcarriers for oral protein delivery. Journal of Biomedical Materials Research - Part A, 2017, 105, 1243-1251.	2.1	9
129	Cell-laden alginate hydrogels for the treatment of diabetes. Expert Opinion on Drug Delivery, 2020, 17, 1113-1118.	2.4	9
130	Recent advances in hemophilia B therapy. Drug Delivery and Translational Research, 2017, 7, 359-371.	3.0	8
131	Peptide conjugation enhances the cellular co-localization, but not endosomal escape, of modular poly(acrylamide-co-methacrylic acid) nanogels. Journal of Controlled Release, 2021, 329, 1162-1171.	4.8	8
132	Network structure and methanol transport dynamics in poly(methyl methacrylate). AICHE Journal, 2012, 58, 1600-1609.	1.8	7
133	Surface hydrolysis-mediated PEGylation of poly(N-isopropyl acrylamide) based nanogels. International Journal of Energy Production and Management, 2017, 4, 281-287.	1.9	7
134	Poly(Methacrylic Acid-g-Ethylene Glycol) Hydrogels as pH Responsive Biomedical Materials. Materials Research Society Symposia Proceedings, 1993, 331, 199.	0.1	5
135	Structure, Testing, and Applications of Biomaterials. Advances in Chemistry Series, 1982, , 465-473.	0.6	4
136	Recent advancements in biosensing approaches for screening and diagnostic applications. Current Opinion in Biomedical Engineering, 2021, 19, 100318.	1.8	4
137	Micropatterning of biomedical polymer surfaces by novel UV polymerization techniques. , 2001, 56, 351.		3
138	NMR spectroscopy and free volume analysis of the effects of copolymer composition on the swelling kinetics and chain dynamics of highly crosslinked copolymers of acrylic acid with PEG-containing multiacrylates. Journal of Polymer Science, Part B: Polymer Physics, 1999, 37, 1953-1968.	2.4	2
139	Influence of extracellular cues of hydrogel biomaterials on stem cell fate. Journal of Biomaterials Science, Polymer Edition, 2022, 33, 1324-1347.	1.9	2
140	Dynamic Swelling of Ionic Networks. ACS Symposium Series, 1994, , 40-49.	0.5	1
141	Molecular Simulations of Recognitive Polymer Networks Prepared by Biomimetic Configurational Imprinting as Responsive Biomaterials. Materials Research Society Symposia Proceedings, 2003, 787, 211.	0.1	1
142	Chemistry and properties of crosslinked polymers, edited by S. S. Labana, Academic Press, New York, 1977, xiii+ 581 pages,\$29.50. AICHE Journal, 1977, 23, 958-958.	1.8	0
143	Novel Preparation of Poly(Vinyl Alcohol) Microparticles without Crosslinking Agent for Controlled Drug Delivery. Materials Research Society Symposia Proceedings, 1993, 331, 223.	0.1	0
144	Controlled Release of Trimaterene from Poly(DL-Lactide-Co-Glycolide) Microspheres. Materials Research Society Symposia Proceedings, 1993, 331, 91.	0.1	0

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145	Solid-State NMR Spectroscopy for Characterization of Acrylate Reactions. ACS Symposium Series, 1997, , 28-34.	0.5	0
146	Novel Ionogenic Acrylate Copolymer Networks for Sustained Solute Delivery. ACS Symposium Series, 1998, , 129-142.	0.5	0
147	The 2015 Young Innovators of Cellular and Molecular Bioengineering. Cellular and Molecular Bioengineering, 2015, 8, 305-306.	1.0	0