Nicholas A Peppas

List of Publications by Year
in descending order

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147 papers	16,902 citations	26630 56 h-index	15266 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. Nature Reviews Drug Discovery, 2021, 20, 101-124.	46.4	3,154
2	Polymers for Drug Delivery Systems. Annual Review of Chemical and Biomolecular Engineering, 2010, 1, 149-173.	6.8	1,205
3	Nanocomposite hydrogels for biomedical applications. Biotechnology and Bioengineering, 2014, 111, 441-453.	3.3	916
4	Stimulus-responsive hydrogels: Theory, modern advances, and applications. Materials Science and Engineering Reports, 2015, 93, 1-49.	31.8	811
5	A review of current nanoparticle and targeting moieties for the delivery of cancer therapeutics. European Journal of Pharmaceutical Sciences, 2013, 48, 416-427.	4.0	640
6	Synthesis and Characterization of pH- and Temperature-Sensitive Poly(methacrylic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (acid)/P 102-107.	4.8	485
7	Mathematical models in drug delivery: How modeling has shaped the way we design new drug delivery systems. Journal of Controlled Release, 2014, 190, 75-81.	9.9	395
8	Analyte-Responsive Hydrogels: Intelligent Materials for Biosensing and Drug Delivery. Accounts of Chemical Research, 2017, 50, 170-178.	15.6	386
9	Bone tissue engineering via growth factor delivery: from scaffolds to complex matrices. International Journal of Energy Production and Management, 2018, 5, 197-211.	3.7	368
10	Quantum dots in biomedical applications. Acta Biomaterialia, 2019, 94, 44-63.	8.3	310
11	Co-delivery of siRNA and therapeutic agents using nanocarriers to overcome cancer resistance. Nano Today, 2012, 7, 367-379.	11.9	292
12	Hydrogels and Scaffolds for Immunomodulation. Advanced Materials, 2014, 26, 6530-6541.	21.0	286
13	Current state and challenges in developing oral vaccines. Advanced Drug Delivery Reviews, 2017, 114, 116-131.	13.7	270
14	Responsive Theranostic Systems: Integration of Diagnostic Imaging Agents and Responsive Controlled Release Drug Delivery Carriers. Accounts of Chemical Research, 2011, 44, 1061-1070.	15.6	256
15	Dynamic swelling behavior of pH-sensitive anionic hydrogels used for protein delivery. Journal of Applied Polymer Science, 2003, 89, 1606-1613.	2.6	242
16	Nanoscale technology of mucoadhesive interactions. Advanced Drug Delivery Reviews, 2004, 56, 1675-1687.	13.7	216
17	Expert opinion: Responsive polymer nanoparticles in cancer therapy. European Journal of Pharmaceutics and Biopharmaceutics, 2012, 80, 241-246.	4.3	180
18	Novel oral insulin delivery systems based on complexation polymer hydrogels: Single and multiple administration studies in type 1 and 2 diabetic rats. Journal of Controlled Release, 2006, 110, 587-594.	9.9	172

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19	Surgical materials: Current challenges and nano-enabled solutions. Nano Today, 2014, 9, 574-589.	11.9	158
20	The swollen polymer network hypothesis: Quantitative models of hydrogel swelling, stiffness, and solute transport. Progress in Polymer Science, 2020, 105, 101243.	24.7	152
21	Hydrogels for oral delivery of therapeutic proteins. Expert Opinion on Biological Therapy, 2004, 4, 881-887.	3.1	141
22	Multi-responsive hydrogels for drug delivery and tissue engineering applications. International Journal of Energy Production and Management, 2014, 1, 57-65.	3.7	135
23	Hydrogel-based biosensors and sensing devices for drug delivery. Journal of Controlled Release, 2016, 240, 142-150.	9.9	129
24	Preparation and Characterization of pH-Responsive Poly(methacrylic acid-g-ethylene glycol) Nanospheres. Macromolecules, 2002, 35, 3668-3674.	4.8	128
25	Tuning the biomimetic behavior of scaffolds for regenerative medicine through surface modifications. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 1275-1293.	2.7	128
26	Physicochemical behavior and cytotoxic effects of p(methacrylic acidâ€“g-ethylene glycol) nanospheres for oral delivery of proteins. Journal of Controlled Release, 2002, 80, 197-205.	9.9	123
27	Protein-Imprinted Polymers: The Shape of Things to Come?. Chemistry of Materials, 2017, 29, 5753-5761.	6.7	112
28	Advanced engineered nanoparticulate platforms to address key biological barriers for delivering chemotherapeutic agents to target sites. Advanced Drug Delivery Reviews, 2020, 167, 170-188.	13.7	112
29	Enzyme- and pH-Responsive Microencapsulated Nanogels for Oral Delivery of siRNA to Induce TNF-Î± Knockdown in the Intestine. Biomacromolecules, 2016, 17, 788-797.	5.4	108
30	Designing the new generation of intelligent biocompatible carriers for protein and peptide delivery. Acta Pharmaceutica Sinica B, 2018, 8, 147-164.	12.0	107
31	Nanoscale analysis of protein and peptide absorption: Insulin absorption using complexation and pH-sensitive hydrogels as delivery vehicles. European Journal of Pharmaceutical Sciences, 2006, 29, 183-197.	4.0	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. Journal of Controlled Release, 2016, 221, 18-25.	9.9	95
33	Softâ€Nanoparticle Functionalization of Natural Hydrogels for Tissue Engineering Applications. Advanced Healthcare Materials, 2019, 8, e1900506.	7.6	95
34	A tumor-to-lymph procedure navigated versatile gel system for combinatorial therapy against tumor recurrence and metastasis. Science Advances, 2020, 6, .	10.3	95
35	Intelligent nanoparticles for advanced drug delivery in cancer treatment. Current Opinion in Chemical Engineering, 2015, 7, 84-92.	7.8	90
36	Historical perspective on advanced drug delivery: How engineering design and mathematical modeling helped the field mature. Advanced Drug Delivery Reviews, 2013, 65, 5-9.	13.7	88

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37	Intelligent therapeutics: biomimetic systems and nanotechnology in drug delivery. Advanced Drug Delivery Reviews, 2004, 56, 1529-1531.	13.7	83
38	A combinational chemo-immune therapy using an enzyme-sensitive nanoplatform for dual-drug delivery to specific sites by cascade targeting. Science Advances, 2021, 7, .	10.3	81
39	Networks for recognition of biomolecules: molecular imprinting and micropatterning poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overl	3.2	80
40	Label-Free Detection of Tear Biomarkers Using Hydrogel-Coated Gold Nanoshells in a Localized Surface Plasmon Resonance-Based Biosensor. ACS Nano, 2018, 12, 9342-9354.	14.6	79
41	Complexation hydrogels for intestinal delivery of interferon Î² and calcitonin. Journal of Controlled Release, 2009, 134, 98-102.	9.9	77
42	Micropatterning of biomedical polymer surfaces by novel UV polymerization techniques. Journal of Biomedical Materials Research Part B, 2001, 56, 351-360.	3.1	76
43	Modular fabrication of intelligent material-tissue interfaces for bioinspired and biomimetic devices. Progress in Materials Science, 2019, 106, 100589.	32.8	72
44	Messenger RNA-based vaccines: Past, present, and future directions in the context of the COVID-19 pandemic. Advanced Drug Delivery Reviews, 2021, 179, 114000.	13.7	71
45	Poly(ethylene glycol)-containing Hydrogels for Oral Protein Delivery Applications. Biomedical Microdevices, 2003, 5, 333-341.	2.8	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. International Journal of Pharmaceutics, 2014, 471, 83-91.	5.2	70
47	Monodisperse nanoparticles of poly(ethylene glycol) macromers and N-isopropyl acrylamide for biomedical applications. Journal of Applied Polymer Science, 2003, 87, 1678-1684.	2.6	67
48	Molecular Aspects of Mucoadhesive Carrier Development for Drug Delivery and Improved Absorption. Journal of Biomaterials Science, Polymer Edition, 2009, 20, 1-20.	3.5	66
49	Mimicking biological delivery through feedbackâ€controlled drug release systems based on molecular imprinting. AICHE Journal, 2009, 55, 1311-1324.	3.6	64
50	Synthetic networks with tunable responsiveness, biodegradation, and molecular recognition for precision medicine applications. Science Advances, 2019, 5, eaax7946.	10.3	64
51	Molecular interactions in poly(methacrylic acid)/poly(N-isopropyl acrylamide) interpenetrating polymer networks. Journal of Applied Polymer Science, 2001, 82, 1077-1082.	2.6	60
52	Surface-Modified P(HEMA-co-MAA) Nanogel Carriers for Oral Vaccine Delivery: Design, Characterization, and In Vitro Targeting Evaluation. Biomacromolecules, 2014, 15, 2725-2734.	5.4	59
53	Kinetic Gelation Modeling of Controlled Radical Polymerizations. Macromolecules, 2000, 33, 5137-5142.	4.8	58
54	Temperature-responsive polymerâ€"gold nanocomposites as intelligent therapeutic systems. Journal of Biomedical Materials Research - Part A, 2007, 83A, 692-695.	4.0	57

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55	Preparation and Characterization of P(MAA-g-EG) Nanospheres for Protein Delivery Applications. Journal of Nanoparticle Research, 2002, 4, 73-81.	1.9	53
56	Biomaterials for Sequestration of Growth Factors and Modulation of Cell Behavior. Advanced Functional Materials, 2020, 30, 1909011.	14.9	51
57	Polycationic Nanoparticles for siRNA Delivery: Comparing ARGET ATRP and UV-Initiated Formulations. ACS Nano, 2014, 8, 2908-2917.	14.6	50
58	Advanced architectures in the design of responsive polymers for cancer nanomedicine. Journal of Applied Polymer Science, 2018, 135, 46154.	2.6	50
59	Engineered microscale hydrogels for drug delivery, cell therapy, and sequencing. Biomedical Microdevices, 2019, 21, 31.	2.8	50
60	Polybasic Nanomatrices Prepared by UV-Initiated Photopolymerization. Macromolecules, 2009, 42, 3391-3398.	4.8	44
61	Theranostic agents for intracellular gene delivery with spatiotemporal imaging. Nano Today, 2013, 8, 21-38.	11.9	44
62	Compositional Effects on Network Structure of Highly Cross-Linked Copolymers of PEG-Containing Multiacrylates with Acrylic Acid. Macromolecules, 1999, 32, 6139-6148.	4.8	40
63	Crystal unfolding and chain disentanglement during semicrystalline polymer dissolution. AICHE Journal, 1997, 43, 870-876.	3.6	39
64	A Closer Look at the Impact of Molecular Imprinting on Adsorption Capacity and Selectivity for Protein Templates. Biomacromolecules, 2016, 17, 4045-4053.	5.4	37
65	Molecularly Imprinted Intelligent Scaffolds for Tissue Engineering Applications. Tissue Engineering - Part B: Reviews, 2017, 23, 27-43.	4.8	37
66	Tunable, responsive nanogels containing t-butyl methacrylate and 2-(t-butylamino)ethyl methacrylate. Polymer, 2013, 54, 3784-3795.	3.8	36
67	Advanced biomedical hydrogels: molecular architecture and its impact on medical applications. International Journal of Energy Production and Management, 2021, 8, rbab060.	3.7	36
68	Re-evaluating the importance of carbohydrates as regenerative biomaterials. International Journal of Energy Production and Management, 2019, 6, 1-12.	3.7	35
69	Applications of biomimetic systems in drug delivery. Expert Opinion on Drug Delivery, 2005, 2, 1085-1096.	5.0	34
70	Synthesis and Properties of Lightly Crosslinked Poly((meth)acrylic acid) Microparticles Prepared by Free Radical Precipitation Polymerization. Polymer Bulletin, 2006, 57, 11-20.	3.3	34
71	Novel strategy for the determination of UCST-like microgels network structure: effect on swelling behavior and rheology. Soft Matter, 2012, 8, 337-346.	2.7	34
72	Charged poly(N-isopropylacrylamide) nanogels for use as differential protein receptors in a turbidimetric sensor array. Analyst, The, 2017, 142, 3183-3193.	3.5	34

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73	Enhanced Core Hydrophobicity, Functionalization and Cell Penetration of Polybasic Nanomatrices. Pharmaceutical Research, 2009, 26, 51-60.	3.5	32
74	Impact of absorption and transport on intelligent therapeutics and nanoscale delivery of protein therapeutic agents. Chemical Engineering Science, 2009, 64, 4553-4565.	3.8	32
75	Synthesis and characterization of pH-responsive nanoscale hydrogels for oral delivery of hydrophobic therapeutics. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 108, 196-213.	4.3	32
76	Complexation hydrogels as potential carriers in oral vaccine delivery systems. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 112, 138-142.	4.3	31
77	Transport and delivery of interferon-Î± through epithelial tight junctions via pH-responsive poly(methacrylic acid-grafted-ethylene glycol) nanoparticles. Journal of Drug Targeting, 2019, 27, 582-589.	4.4	31
78	Poly(acrylic acid)-poly(vinyl alcohol) copolymers with superabsorbent properties. Journal of Applied Polymer Science, 1998, 70, 817-829.	2.6	30
79	Vision for Functionally Decorated and Molecularly Imprinted Polymers in Regenerative Engineering. Regenerative Engineering and Translational Medicine, 2017, 3, 166-175.	2.9	30
80	Epitope-imprinted polymers: Design principles of synthetic binding partners for natural biomacromolecules. Science Advances, 2021, 7, eabi9884.	10.3	29
81	110th Anniversary: Nanoparticle Mediated Drug Delivery for the Treatment of Alzheimerâ€™s Disease: Crossing the Bloodâ€“Brain Barrier. Industrial & Engineering Chemistry Research, 2019, 58, 15079-15087.	3.7	28
82	Dynamic swelling behavior of interpenetrating polymer networks in response to temperature and pH. Journal of Applied Polymer Science, 2015, 132, .	2.6	27
83	Î±-Galactosylceramide and peptide-based nano-vaccine synergistically induced a strong tumor suppressive effect in melanoma. Acta Biomaterialia, 2018, 76, 193-207.	8.3	27
84	Miniaturized Needle Arrayâ€Mediated Drug Delivery Accelerates Wound Healing. Advanced Healthcare Materials, 2021, 10, e2001800.	7.6	27
85	Kinetics of Copolymerization of PEG-Containing Multiacrylates with Acrylic Acid. Macromolecules, 1999, 32, 6149-6158.	4.8	26
86	Complexation Hydrogels as Oral Delivery Vehicles of Therapeutic Antibodies: An in Vitro and ex Vivo Evaluation of Antibody Stability and Bioactivity. Industrial & Engineering Chemistry Research, 2015, 54, 10197-10205.	3.7	26
87	Combination Strategy with Complexation Hydrogels and Cell-Penetrating Peptides for Oral Delivery of Insulin. Biological and Pharmaceutical Bulletin, 2018, 41, 811-814.	1.4	25
88	Immobilization of nanocarriers within a porous chitosan scaffold for the sustained delivery of growth factors in bone tissue engineering applications. Journal of Biomedical Materials Research - Part A, 2020, 108, 1122-1135.	4.0	25
89	Intelligent recognitive systems in nanomedicine. Current Opinion in Chemical Engineering, 2014, 4, 105-113.	7.8	23
90	Relaxational behavior and swelling-pH master curves of poly[(diethylaminoethyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (methacryla	3.1	21

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91	Insulin release dynamics from poly(diethylaminoethyl methacrylate) hydrogel systems. AICHE Journal, 2013, 59, 3578-3585.	3.6	21
92	Tunable poly(methacrylic acidâ€coâ€acrylamide) nanoparticles through inverse emulsion polymerization. Journal of Biomedical Materials Research - Part A, 2018, 106, 1677-1686.	4.0	21
93	Molecular recognition with soft biomaterials. Soft Matter, 2020, 16, 856-869.	2.7	21
94	Epitopeâ€Imprinted Nanoparticles as Transforming Growth Factorâ€Î²3 Sequestering Ligands to Modulate Stem Cell Fate. Advanced Functional Materials, 2021, 31, 2003934.	14.9	21
95	Solute Transport Dependence on 3D Geometry of Hydrogel Networks. Macromolecular Chemistry and Physics, 2021, 222, 2100138.	2.2	21
96	Overcoming barriers in non-viral gene delivery for neurological applications. Nanoscale, 2022, 14, 3698-3719.	5.6	21
97	Cytoplasmic delivery of functional siRNA using pH-Responsive nanoscale hydrogels. International Journal of Pharmaceutics, 2019, 562, 249-257.	5.2	20
98	QCMâ€Ð assay for quantifying the swelling, biodegradation, and protein adsorption of intelligent nanogels. Journal of Applied Polymer Science, 2020, 137, 48655.	2.6	20
99	Bioadhesives for Optimization of Drug Delivery. Journal of Drug Targeting, 1995, 3, 183-184.	4.4	19
100	Multiresponsive polyanionic microgels with inverse pH responsive behavior by encapsulation of polycationic nanogels. Journal of Applied Polymer Science, 2014, 131, .	2.6	19
101	Student award for outstanding research winner in the Ph.D. category for the 2017 society for biomaterials annual meeting and exposition, april 5â€“8, 2017, Minneapolis, Minnesota: Characterization of protein interactions with molecularly imprinted hydrogels that possess engineered affinity for high isoelectric point biomarkers. Journal of Biomedical Materials Research - Part A, 2017, 105, 1565-1574.	4.0	19
102	Effect of network mesh size and swelling to the drug delivery from pH responsive hydrogels. Journal of Applied Polymer Science, 2020, 137, 48767.	2.6	19
103	Lipid- and polymer-based nanoparticle systems for the delivery of CRISPR/Cas9. Journal of Drug Delivery Science and Technology, 2021, 65, 102728.	3.0	19
104	Glucose recognition capabilities of hydroxyethyl methacrylate-based hydrogels containing poly(ethylene glycol) chains. Journal of Applied Polymer Science, 2007, 103, 432-441.	2.6	18
105	The challenge to improve the response of biomaterials to the physiological environment. International Journal of Energy Production and Management, 2016, 3, 67-71.	3.7	18
106	Innovations in Biomaterial Design toward Successful RNA Interference Therapy for Cancer Treatment. Advanced Healthcare Materials, 2021, 10, e2100350.	7.6	18
107	Biomimetic materials and micropatterned structures using iniferters. Advanced Drug Delivery Reviews, 2004, 56, 1587-1597.	13.7	17
108	High-Throughput FRAP Analysis of Solute Diffusion in Hydrogels. Macromolecules, 2021, 54, 10477-10486.	4.8	17

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109	Effect of monomer type and dangling end size on polymer network synthesis. Journal of Applied Polymer Science, 2003, 89, 3506-3519.	2.6	16
110	In Vitro Evaluation of pH-Responsive Nanoscale Hydrogels for the Oral Delivery of Hydrophobic Therapeutics. Industrial & Engineering Chemistry Research, 2016, 55, 10576-10590.	3.7	16
111	Development of a P((MAAâ€coâ€NVP)â€gâ€EG) Hydrogel Platform for Oral Protein Delivery: Effects of Hydrogel Composition on Environmental Response and Protein Partitioning. Macromolecular Bioscience, 2017, 17, 1600266.	4.1	16
112	Recent Advances in Smart Biomaterials for the Detection and Treatment of Autoimmune Diseases. Advanced Functional Materials, 2020, 30, 1909556.	14.9	16
113	Preparation and properties of poly(ethylene oxide) star polymers. Journal of Applied Polymer Science, 2003, 87, 322-327.	2.6	15
114	Design of pH-Responsive Biomaterials to Enable the Oral Route of Hematological Factor IX. Annals of Biomedical Engineering, 2016, 44, 1970-1982.	2.5	15
115	3D cell-laden polymers to release bioactive products in the eye. Progress in Retinal and Eye Research, 2019, 68, 67-82.	15.5	15
116	Control of cationic nanogel PEGylation in heterogeneous ARGET ATRP emulsion polymerization with PEG macromonomers. Journal of Polymer Science Part A, 2018, 56, 1536-1544.	2.3	14
117	CRISPR/Cas systems to overcome challenges in developing the next generation of T cells for cancer therapy. Advanced Drug Delivery Reviews, 2020, 158, 17-35.	13.7	14
118	Polymer composition primarily determines the protein recognition characteristics of molecularly imprinted hydrogels. Journal of Materials Chemistry B, 2020, 8, 7685-7695.	5.8	13
119	Cytocompatibility, membrane disruption, and siRNA delivery using environmentally responsive cationic nanogels. Journal of Controlled Release, 2021, 332, 608-619.	9.9	13
120	Biodegradable hydrophilic carriers for the oral delivery of hematological factor IX for hemophilia B treatment. International Journal of Pharmaceutics, 2016, 514, 220-228.	5.2	12
121	Optimization of Cationic Nanogel PEGylation to Achieve Mammalian Cytocompatibility with Limited Loss of Gram-Negative Bactericidal Activity. Biomacromolecules, 2020, 21, 1528-1538.	5.4	12
122	Electrostatic and Covalent Assemblies of Anionic Hydrogel-Coated Gold Nanoshells for Detection of Dry Eye Biomarkers in Human Tears. Nano Letters, 2021, 21, 8734-8740.	9.1	12
123	Temperature- and pH- Sensitive Hydrogels for Controlled Release of Antithrombotic Agents. Materials Research Society Symposia Proceedings, 1993, 331, 211.	0.1	11
124	Degradable Poly(Methyl Methacrylate)-co-Methacrylic Acid Nanoparticles for Controlled Delivery of Growth Factors for Bone Regeneration. Tissue Engineering - Part A, 2020, 26, 1226-1242.	3.1	11
125	Developing a Multidisciplinary Approach for Engineering Stem Cell Organoids. Annals of Biomedical Engineering, 2020, 48, 1895-1904.	2.5	10
126	Novel Bioadhesive Complexation Networks for Oral Protein Drug Delivery. ACS Symposium Series, 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.	3.6	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.	4.0	9
129	Cell-laden alginate hydrogels for the treatment of diabetes. Expert Opinion on Drug Delivery, 2020, 17, 1113-1118.	5.0	9
130	Recent advances in hemophilia B therapy. Drug Delivery and Translational Research, 2017, 7, 359-371.	5.8	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.	9.9	8
132	Network structure and methanol transport dynamics in poly(methyl methacrylate). AICHE Journal, 2012, 58, 1600-1609.	3.6	7
133	Surface hydrolysis-mediated PEGylation of poly(N-isopropyl acrylamide) based nanogels. International Journal of Energy Production and Management, 2017, 4, 281-287.	3.7	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.	3.4	4
137	Micropatterning of biomedical polymer surfaces by novel UV polymerization techniques. Journal of Biomedical Materials Research Part B, 2001, 56, 351-360.	3.1	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.	2.1	2
139	Influence of extracellular cues of hydrogel biomaterials on stem cell fate. Journal of Biomaterials Science, Polymer Edition, 2022, 33, 1324-1347.	3.5	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.	3.6	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.	2.1	0