David Kaplan

List of Publications by Year
in descending order

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1,051 papers	97,687 citations	196 149 h-index	428 275 g-index
1077 all docs	1077 docs citations	1077 times ranked	52661 citing authors

#	Article	IF	Citations
1	Bayesian Dynamic Borrowing of Historical Information with Applications to the Analysis of Large-Scale Assessments. Psychometrika, 2023, 88, 1-30.	1.2	5
2	Fiberâ€Based Biopolymer Processing as a Route toward Sustainability. Advanced Materials, 2022, 34, e2105196.	11.1	71
3	ColGen: An end-to-end deep learning model to predict thermal stability of de novo collagen sequences. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 125, 104921.	1.5	15
4	Perspectives on scaling production of adipose tissue for food applications. Biomaterials, 2022, 280, 121273.	5.7	17
5	Nerve Growth Factor-Laden Anisotropic Silk Nanofiber Hydrogels to Regulate Neuronal/Astroglial Differentiation for Scarless Spinal Cord Repair. ACS Applied Materials & Interfaces, 2022, 14, 3701-3715.	4.0	33
6	Bioengineered models of Parkinsonâ€™s disease using patient-derived dopaminergic neurons exhibit distinct biological profiles in a 3D microenvironment. Cellular and Molecular Life Sciences, 2022, 79, 78.	2.4	12
7	Photoacoustic Carbon Nanotubes Embedded Silk Scaffolds for Neural Stimulation and Regeneration. ACS Nano, 2022, 16, 2292-2305.	7.3	50
8	Conformation-driven strategy for resilient and functional protein materials. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	21
9	Toughening Wetâ€Spun Silk Fibers by Silk Nanofiber Templating. Macromolecular Rapid Communications, 2022, 43, e2100891.	2.0	11
10	Acute multidrug delivery via a wearable bioreactor facilitates long-term limb regeneration and functional recovery in adult Xenopus laevis. Science Advances, 2022, 8, eabj2164.	4.7	27
11	Protein-amylose/amylopectin molecular interactions during high-moisture extruded texturization toward plant-based meat substitutes applications. Food Hydrocolloids, 2022, 127, 107559.	5.6	42
12	Repetitive Mild Closed Head Injury in Adolescent Mice Is Associated with Impaired Proteostasis, Neuroinflammation, and Tauopathy. Journal of Neuroscience, 2022, 42, 2418-2432.	1.7	9
13	Charge-Modulated Accessibility of Tyrosine Residues for Silk-Elastin Copolymer Cross-Linking. Biomacromolecules, 2022, 23, 760-765.	2.6	4
14	Challenges in delivering therapeutic peptides and proteins: A silk-based solution. Journal of Controlled Release, 2022, 345, 176-189.	4.8	28
15	End-to-End Deep Learning Model to Predict and Design Secondary Structure Content of Structural Proteins. ACS Biomaterials Science and Engineering, 2022, 8, 1156-1165.	2.6	22
16	Emerging Trajectories for Next Generation Tissue Engineers. ACS Biomaterials Science and Engineering, 2022, 8, 4598-4604.	2.6	5
17	Sustainable Antibacterial and Anti-Inflammatory Silk Suture with Surface Modification of Combined-Therapy Drugs for Surgical Site Infection. ACS Applied Materials & Interfaces, 2022, 14, 11177-11191.	4.0	21
18	MSCâ€Laden Composite Hydrogels for Inflammation and Angiogenic Regulation for Skin Flap Repair. Advanced Therapeutics, 2022, 5, .	1.6	3

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19	From Biosensors to Drug Delivery and Tissue Engineering: Open Biomaterials Research. ACS Omega, 2022, 7, 6437-6438.	1.6	0
20	Impact of Membrane Voltage on Formation and Stability of Human Renal Proximal Tubules in Vitro. ACS Biomaterials Science and Engineering, 2022, 8, 1239-1246.	2.6	0
21	3D Printing of Monolithic Proteinaceous Cantilevers Using Regenerated Silk Fibroin. Molecules, 2022, 27, 2148.	1.7	7
22	Tissue Engineering for Cervical Function in Pregnancy. Current Opinion in Biomedical Engineering, 2022, 22, 100385.	1.8	0
23	Genetically engineered pH-responsive silk sericin nanospheres with efficient therapeutic effect on ulcerative colitis. Acta Biomaterialia, 2022, 144, 81-95.	4.1	27
24	Fast and reversible crosslinking of a silk elastin-like polymer. Acta Biomaterialia, 2022, 141, 14-23.	4.1	6
25	Radially Aligned Porous Silk Fibroin Scaffolds as Functional Templates for Engineering Human Biomimetic Hepatic Lobules. ACS Applied Materials & Interfaces, 2022, 14, 201-213.	4.0	6
26	Silk Nanocarrier Size Optimization for Enhanced Tumor Cell Penetration and Cytotoxicity In Vitro. ACS Biomaterials Science and Engineering, 2022, 8, 140-150.	2.6	8
27	Degradable Silkâ€Based Subcutaneous Oxygen Sensors. Advanced Functional Materials, 2022, 32, .	7.8	11
28	Screening neuroprotective compounds in herpes-induced Alzheimer's disease cell and 3D tissue models. Free Radical Biology and Medicine, 2022, 186, 76-92.	1.3	4
29	Anisotropic silk nanofiber layers as regulators of angiogenesis for optimized bone regeneration. Materials Today Bio, 2022, 15, 100283.	2.6	7
30	Silk Hydrogel-Mediated Delivery of Bone Morphogenetic Protein 7 Directly to Subcutaneous White Adipose Tissue Increases Browning and Energy Expenditure. Frontiers in Bioengineering and Biotechnology, 2022, 10, .	2.0	6
31	3D porous scaffolds from wheat glutenin for cultured meat applications. Biomaterials, 2022, 285, 121543.	5.7	52
32	Galliumâ€“Strontium Phosphate Conversion Coatings for Promoting Infection Prevention and Biocompatibility of Magnesium for Orthopedic Applications. ACS Biomaterials Science and Engineering, 2022, 8, 2709-2723.	2.6	3
33	Engineered Tough Silk Hydrogels through Assembling Î²-Sheet Rich Nanofibers Based on a Solvent Replacement Strategy. ACS Nano, 2022, 16, 10209-10218.	7.3	23
34	Simple and effective serum-free medium for sustained expansion of bovine satellite cells for cell cultured meat. Communications Biology, 2022, 5, .	2.0	83
35	Intraarticularly injectable silk hydrogel microspheres with enhanced mechanical and structural stability to attenuate osteoarthritis. Biomaterials, 2022, 286, 121611.	5.7	24
36	Potential Involvement of Varicella Zoster Virus in Alzheimerâ€™s Disease via Reactivation of Quiescent Herpes Simplex Virus Type 1. Journal of Alzheimer's Disease, 2022, 88, 1189-1200.	1.2	32

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37	Bioengineered 3D Tissue Model of Intestine Epithelium with Oxygen Gradients to Sustain Human Gut Microbiome. Advanced Healthcare Materials, 2022, 11, .	3.9	10
38	Cytoprotection of Human Progenitor and Stem Cells through Encapsulation in Alginate Templated, Dual Crosslinked Silk and Silkâ€“Gelatin Composite Hydrogel Microbeads. Advanced Healthcare Materials, 2022, 11, .	3.9	15
39	Recent advances in bioprinting using silk protein-based bioinks. Biomaterials, 2022, 287, 121672.	5.7	36
40	Edible films for cultivated meat production. Biomaterials, 2022, 287, 121659.	5.7	32
41	Cell-specific activation of RIPK1 and MLKL after intracerebral hemorrhage in mice. Journal of Cerebral Blood Flow and Metabolism, 2021, 41, 1623-1633.	2.4	16
42	Biomimetic Design for Bio-Matrix Interfaces and Regenerative Organs. Tissue Engineering - Part B: Reviews, 2021, 27, 411-429.	2.5	5
43	Effect of the silica nanoparticle size on the osteoinduction of biomineralized silk-silica nanocomposites. Acta Biomaterialia, 2021, 120, 203-212.	4.1	19
44	In Vitro Models of Intestine Innate Immunity. Trends in Biotechnology, 2021, 39, 274-285.	4.9	19
45	Ethanol-induced coacervation in aqueous gelatin solution for constructing nanospheres and networks: Morphology, dynamics and thermal sensitivity. Journal of Colloid and Interface Science, 2021, 582, 610-618.	5.0	17
46	In Situ 3D Printing: Opportunities with Silk Inks. Trends in Biotechnology, 2021, 39, 719-730.	4.9	54
47	Confronting Racism in Chemistry Journals. ACS ES&T Engineering, 2021, 1, 3-5.	3.7	0
48	Protein composites from silkworm cocoons as versatile biomaterials. Acta Biomaterialia, 2021, 121, 180-192.	4.1	29
49	Dynamically tunable light responsive silk-elastin-like proteins. Acta Biomaterialia, 2021, 121, 214-223.	4.1	35
50	Spinning Regenerated Silk Fibers with Improved Toughness by Plasticizing with Low Molecular Weight Silk. Biomacromolecules, 2021, 22, 788-799.	2.6	12
51	On the effect of neuronal spatial subsampling in smallâ€world networks. European Journal of Neuroscience, 2021, 53, 485-498.	1.2	2
52	mRNA Delivery Using Bioreducible Lipidoid Nanoparticles Facilitates Neural Differentiation of Human Mesenchymal Stem Cells. Advanced Healthcare Materials, 2021, 10, e2000938.	3.9	23
53	Confronting Racism in Chemistry Journals. ACS ES&T Water, 2021, 1, 3-5.	2.3	0
54	Brain organoid formation on decellularized porcine brain ECM hydrogels. PLoS ONE, 2021, 16, e0245685.	1.1	55

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55	Injectable silk nanofiber hydrogels as stem cell carriers to accelerate wound healing. Journal of Materials Chemistry B, 2021, 9, 7771-7781.	2.9	16
56	Silk Reservoir Implants for Sustained Drug Delivery. ACS Applied Bio Materials, 2021, 4, 869-880.	2.3	8
57	Liquid-Exfoliated Mesostructured Collagen from the Bovine Achilles Tendon as Building Blocks of Collagen Membranes. ACS Applied Materials & Interfaces, 2021, 13, 3186-3198.	4.0	26
58	Generation of Nano-pores in Silk Fibroin Films Using Silk Nanoparticles for Full-Thickness Wound Healing. Biomacromolecules, 2021, 22, 546-556.	2.6	28
59	Silk Hydrogels with Controllable Formation of Dityrosine, 3,4-Dihydroxyphenylalanine, and 3,4-Dihydroxyphenylalanineâ€“Fe³⁺ Complexes through Chitosan Particle-Assisted Fenton Reactions. Biomacromolecules, 2021, 22, 773-787.	2.6	17
60	Low-Density Silk Nanofibrous Aerogels: Fabrication and Applications in Air Filtration and Oil/Water Purification. ACS Nano, 2021, 15, 1048-1058.	7.3	74
61	Aligned Silk Sponge Fabrication and Perfusion Culture for Scalable Proximal Tubule Tissue Engineering. ACS Applied Materials & Interfaces, 2021, 13, 10768-10777.	4.0	10
62	Injectable Desferrioxamine-Laden Silk Nanofiber Hydrogels for Accelerating Diabetic Wound Healing. ACS Biomaterials Science and Engineering, 2021, 7, 1147-1158.	2.6	39
63	Rheological characterization, compression, and injection molding of hydroxyapatite-silk fibroin composites. Biomaterials, 2021, 269, 120643.	5.7	21
64	Biopolymer Nanoscale Assemblies as Building Blocks for New Materials: A Review. Advanced Functional Materials, 2021, 31, 2008552.	7.8	62
65	On-Demand Regulation of Dual Thermosensitive Protein Hydrogels. ACS Macro Letters, 2021, 10, 395-400.	2.3	12
66	Integrated functional neuronal network analysis of 3D silk-collagen scaffold-based mouse cortical culture. STAR Protocols, 2021, 2, 100292.	0.5	7
67	On the Quantification of Model Uncertainty: A Bayesian Perspective. Psychometrika, 2021, 86, 215-238.	1.2	29
68	Learning and synaptic plasticity in 3D bioengineered neural tissues. Neuroscience Letters, 2021, 750, 135799.	1.0	2
69	Recent advances in 3D printing with protein-based inks. Progress in Polymer Science, 2021, 115, 101375.	11.8	74
70	Natural Silk Nanofibril Aerogels with Distinctive Filtration Capacity and Heat-Retention Performance. ACS Nano, 2021, 15, 8171-8183.	7.3	68
71	Toward Studying Cognition in a Dish. Trends in Cognitive Sciences, 2021, 25, 294-304.	4.0	7
72	Sugar Functionalization of Silks with Pathwayâ€Controlled Substitution and Properties. Advanced Biology, 2021, 5, 2100388.	1.4	8

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73	Fragile-Tough Mechanical Reversion of Silk Materials via Tuning Supramolecular Assembly. ACS Biomaterials Science and Engineering, 2021, 7, 2337-2345.	2.6	8
74	Sustained Photosynthesis and Oxygen Generation of Microalgae-Embedded Silk Fibroin Hydrogels. ACS Biomaterials Science and Engineering, 2021, 7, 2734-2744.	2.6	9
75	Learning and Synaptic Plasticity in 3D Bioengineered Neural Tissues. FASEB Journal, 2021, 35, .	0.2	0
76	Miniaturized 3D bone marrow tissue model to assess response to Thrombopoietin-receptor agonists in patients. ELife, 2021, 10, .	2.8	10
77	Rapid construction and enhanced vascularization of microtissue using a magnetic control method. Biofabrication, 2021, 13, 035040.	3.7	4
78	Brief multiâ€drug treatment via a wearable silkâ€hydrogel bioreactor induces longâ€term limb reâ€patterning and regeneration in adult Xenopus Laevis. FASEB Journal, 2021, 35, .	0.2	0
79	Nerve Guidance Conduits with Hierarchical Anisotropic Architecture for Peripheral Nerve Regeneration. Advanced Healthcare Materials, 2021, 10, e2100427.	3.9	38
80	Bioinspired Energy Storage and Harvesting Devices. Advanced Materials Technologies, 2021, 6, 2001301.	3.0	11
81	Silk nanocoatings of mammalian cells for cytoprotection against mechanical stress. MRS Bulletin, 2021, 46, 795-806.	1.7	1
82	Short Silk Nanoribbons Decorated by Au Nanoparticles as Substrates for Sensitive and Uniform Surface-Enhanced Raman Spectroscopy Detection. ACS Applied Nano Materials, 2021, 4, 6376-6385.	2.4	4
83	Porous nerve guidance conduits reinforced with braided composite structures of silk/magnesium filaments for peripheral nerve repair. Acta Biomaterialia, 2021, 134, 116-130.	4.1	35
84	Bayesian probabilistic forecasting with large-scale educational trend data: a case study using NAEP. Large-Scale Assessments in Education, 2021, 9, .	0.8	5
85	Mechanical Trainingâ€Ðriven Structural Remodeling: A Rational Route for Outstanding Highly Hydrated Silk Materials. Small, 2021, 17, e2102660.	5.2	16
86	Mechanical Trainingâ€Ðriven Structural Remodeling: A Rational Route for Outstanding Highly Hydrated Silk Materials (Small 33/2021). Small, 2021, 17, 2170173.	5.2	0
87	Electroâ€Blown Spun Silk/Graphene Nanoionotronic Skin for Multifunctional Fire Protection and Alarm. Advanced Materials, 2021, 33, e2102500.	11.1	50
88	On the prediction of neuronal microscale topology descriptors based on mesoscale recordings. European Journal of Neuroscience, 2021, 54, 6147-6167.	1.2	0
89	Blastocyst-Inspired Hydrogels to Maintain Undifferentiation of Mouse Embryonic Stem Cells. ACS Nano, 2021, 15, 14162-14173.	7.3	8
90	Functionalized 3D-printed silk-hydroxyapatite scaffolds for enhanced bone regeneration with innervation and vascularization. Biomaterials, 2021, 276, 120995.	5.7	96

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91	Axonal growth on surfaces with periodic geometrical patterns. PLoS ONE, 2021, 16, e0257659.	1.1	4
92	Study the lipidoid nanoparticle mediated genome editing protein delivery using 3D intestinal tissue model. Bioactive Materials, 2021, 6, 3671-3677.	8.6	4
93	Pressure-driven spreadable deferoxamine-laden hydrogels for vascularized skin flaps. Biomaterials Science, 2021, 9, 3162-3170.	2.6	12
94	Asiaticoside-laden silk nanofiber hydrogels to regulate inflammation and angiogenesis for scarless skin regeneration. Biomaterials Science, 2021, 9, 5227-5236.	2.6	39
95	Genetic inhibition of RIPK3 ameliorates functional outcome in controlled cortical impact independent of necroptosis. Cell Death and Disease, 2021, 12, 1064.	2.7	13
96	Defined extracellular ionic solutions to study and manipulate the cellular resting membrane potential. Biology Open, 2020, 9, .	0.6	12
97	Ex vivo pregnantâ€like tissue model to assess injectable hydrogel for preterm birth prevention. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 468-474.	1.6	9
98	Injectable Silk-Based Hydrogel as an Alternative to Cervical Cerclage: A Rabbit Study. Tissue Engineering - Part A, 2020, 26, 379-386.	1.6	13
99	3D Printing of Silk Protein Structures by Aqueous Solventâ€Directed Molecular Assembly. Macromolecular Bioscience, 2020, 20, e1900191.	2.1	42
100	Two- and Three-Dimensional Bioengineered Human Intestinal Tissue Models for Cryptosporidium. Methods in Molecular Biology, 2020, 2052, 373-402.	0.4	22
101	Silk fibroin for skin injury repair: Where do things stand?. Advanced Drug Delivery Reviews, 2020, 153, 28-53.	6.6	139
102	Fabricating mechanically improved silk-based vascular grafts by solution control of the gel-spinning process. Biomaterials, 2020, 230, 119567.	5.7	37
103	Assessment of Enrichment of Human Mesenchymal Stem Cells Based on Plasma and Mitochondrial Membrane Potentials. Bioelectricity, 2020, 2, 21-32.	0.6	4
104	Transgenic PDGF-BB/sericin hydrogel supports for cell proliferation and osteogenic differentiation. Biomaterials Science, 2020, 8, 657-672.	2.6	23
105	Enzymatically crosslinked silk and silk-gelatin hydrogels with tunable gelation kinetics, mechanical properties and bioactivity for cell culture and encapsulation. Biomaterials, 2020, 232, 119720.	5.7	163
106	Characterization of silk-hyaluronic acid composite hydrogels towards vitreous humor substitutes. Biomaterials, 2020, 233, 119729.	5.7	73
107	Facile production of natural silk nanofibers for electronic device applications. Composites Science and Technology, 2020, 187, 107950.	3.8	28
108	Thermoplastic moulding of regenerated silk. Nature Materials, 2020, 19, 102-108.	13.3	138

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109	Silk-based encapsulation materials to enhance pancreatic cell functions. , 2020, , 329-337.		5
110	Ductility and Porosity of Silk Fibroin Films by Blending with Glycerol/Polyethylene Glycol and Adjusting the Drying Temperature. ACS Biomaterials Science and Engineering, 2020, 6, 1176-1185.	2.6	24
111	Developing a selfâ€organized tubulogenesis model of human renal proximal tubular epithelial cells in vitro. Journal of Biomedical Materials Research - Part A, 2020, 108, 795-804.	2.1	7
112	Design of biodegradable, implantable devices towards clinical translation. Nature Reviews Materials, 2020, 5, 61-81.	23.3	440
113	Engineering immunity for next generation HIV vaccines: The intersection of bioengineering and immunology. Vaccine, 2020, 38, 187-193.	1.7	5
114	Observations of 3 nm Silk Nanofibrils Exfoliated from Natural Silkworm Silk Fibers. , 2020, 2, 153-160.		37
115	Biotechnology and Biomaterial-Based Therapeutic Strategies for Age-Related Macular Degeneration. Part I: Biomaterials-Based Drug Delivery Devices. Frontiers in Bioengineering and Biotechnology, 2020, 8, 549089.	2.0	7
116	Bioengineered elastin- and silk-biomaterials for drug and gene delivery. Advanced Drug Delivery Reviews, 2020, 160, 186-198.	6.6	56
117	Engineering carotenoid production in mammalian cells for nutritionally enhanced cell-cultured foods. Metabolic Engineering, 2020, 62, 126-137.	3.6	40
118	Functional Characterization of Three-Dimensional Cortical Cultures for InÂVitro Modeling of Brain Networks. IScience, 2020, 23, 101434.	1.9	28
119	Confronting Racism in Chemistry Journals. ACS Pharmacology and Translational Science, 2020, 3, 559-561.	2.5	0
120	Hydrogelâ^'Solid Hybrid Materials for Biomedical Applications Enabled by Surfaceâ€Embedded Radicals. Advanced Functional Materials, 2020, 30, 2004599.	7.8	26
121	Confronting Racism in Chemistry Journals. Biochemistry, 2020, 59, 2313-2315.	1.2	0
122	Silk Fibroin Microneedle Patches for the Sustained Release of Levonorgestrel. ACS Applied Bio Materials, 2020, 3, 5375-5382.	2.3	58
123	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Biomaterials Science and Engineering, 2020, 6, 2707-2708.	2.6	0
124	Tuning Microcapsule Shell Thickness and Structure with Silk Fibroin and Nanoparticles for Sustained Release. ACS Biomaterials Science and Engineering, 2020, 6, 4583-4594.	2.6	14
125	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Central Science, 2020, 6, 589-590.	5.3	0
126	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Chemical Biology, 2020, 15, 1282-1283.	1.6	0

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127	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Chemical Neuroscience, 2020, 11, 1196-1197.	1.7	0
128	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Earth and Space Chemistry, 2020, 4, 672-673.	1.2	0
129	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Energy Letters, 2020, 5, 1610-1611.	8.8	1
130	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Macro Letters, 2020, 9, 666-667.	2.3	0
131	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. , 2020, 2, 563-564.		0
132	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Nano, 2020, 14, 5151-5152.	7.3	2
133	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Photonics, 2020, 7, 1080-1081.	3.2	0
134	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Pharmacology and Translational Science, 2020, 3, 455-456.	2.5	0
135	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Sustainable Chemistry and Engineering, 2020, 8, 6574-6575.	3.2	0
136	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. Analytical Chemistry, 2020, 92, 6187-6188.	3.2	0
137	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. Chemistry of Materials, 2020, 32, 3678-3679.	3.2	0
138	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. Environmental Science and Technology Letters, 2020, 7, 280-281.	3.9	1
139	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. Journal of Chemical Education, 2020, 97, 1217-1218.	1.1	1
140	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. Journal of Proteome Research, 2020, 19, 1883-1884.	1.8	0
141	Confronting Racism in Chemistry Journals. Langmuir, 2020, 36, 7155-7157.	1.6	0
142	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Applied Polymer Materials, 2020, 2, 1739-1740.	2.0	0
143	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Combinatorial Science, 2020, 22, 223-224.	3.8	0
144	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Medicinal Chemistry Letters, 2020, 11, 1060-1061.	1.3	0

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145	Matrix Deformation with Ectopic Cells Induced by Rotational Motion in Bioengineered Neural Tissues. Annals of Biomedical Engineering, 2020, 48, 2192-2203.	1.3	0
146	Bottom-Up Construction of Electrochemically Active Living Filters: From Graphene Oxide Mediated Formation of Bacterial Cables to 3D Assembly of Hierarchical Architectures. ACS Applied Bio Materials, 2020, 3, 7376-7381.	2.3	4
147	Editorial Confronting Racism in Chemistry Journals. , 2020, 2, 829-831.		0
148	Matrigel-Free Laminin‚€“Entactin Matrix to Induce Human Renal Proximal Tubule Structure Formation In Vitro. ACS Biomaterials Science and Engineering, 2020, 6, 6618-6625.	2.6	8
149	The effects of membrane potential and extracellular matrix composition on vascular differentiation of cardiac progenitor cells. Biochemical and Biophysical Research Communications, 2020, 530, 240-245.	1.0	1
150	Scientific, sustainability and regulatory challenges of cultured meat. Nature Food, 2020, 1, 403-415.	6.2	315
151	The Next 100 Years of Polymer Science. Macromolecular Chemistry and Physics, 2020, 221, 2000216.	1.1	69
152	Confronting Racism in Chemistry Journals. Journal of Physical Chemistry Letters, 2020, 11, 5279-5281.	2.1	1
153	Confronting Racism in Chemistry Journals. ACS Applied Energy Materials, 2020, 3, 6016-6018.	2.5	0
154	Confronting Racism in Chemistry Journals. ACS Central Science, 2020, 6, 1012-1014.	5.3	1
155	Confronting Racism in Chemistry Journals. Industrial & Engineering Chemistry Research, 2020, 59, 11915-11917.	1.8	0
156	Confronting Racism in Chemistry Journals. Journal of Natural Products, 2020, 83, 2057-2059.	1.5	0
157	Confronting Racism in Chemistry Journals. ACS Medicinal Chemistry Letters, 2020, 11, 1354-1356.	1.3	0
158	Expanding Canonical Spider Silk Properties through a DNA Combinatorial Approach. Materials, 2020, 13, 3596.	1.3	10
159	Confronting Racism in Chemistry Journals. Journal of the American Society for Mass Spectrometry, 2020, 31, 1321-1323.	1.2	1
160	A 3D Tissue Model of Traumatic Brain Injury with Excitotoxicity That Is Inhibited by Chronic Exposure to Gabapentinoids. Biomolecules, 2020, 10, 1196.	1.8	7
161	Confronting Racism in Chemistry Journals. Energy & Fuels, 2020, 34, 7771-7773.	2.5	0
162	Confronting Racism in Chemistry Journals. ACS Sensors, 2020, 5, 1858-1860.	4.0	0

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163	Selfâ€Folding 3D Silk Biomaterial Rolls to Facilitate Axon and Bone Regeneration. Advanced Healthcare Materials, 2020, 9, e2000530.	3.9	15
164	Confronting Racism in Chemistry Journals. ACS Nano, 2020, 14, 7675-7677.	7.3	2
165	Photo-Crosslinked Silk Fibroin for 3D Printing. Polymers, 2020, 12, 2936.	2.0	50
166	Silk Polymers and Nanoparticles: A Powerful Combination for the Design of Versatile Biomaterials. Frontiers in Chemistry, 2020, 8, 604398.	1.8	31
167	Biotechnology and Biomaterial-Based Therapeutic Strategies for Age-Related Macular Degeneration. Part II: Cell and Tissue Engineering Therapies. Frontiers in Bioengineering and Biotechnology, 2020, 8, 588014.	2.0	7
168	Plant-based and cell-based approaches to meat production. Nature Communications, 2020, 11, 6276.	5.8	260
169	Assessing the compatibility of primary human hepatocyte culture within porous silk sponges. RSC Advances, 2020, 10, 37662-37674.	1.7	14
170	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. Biochemistry, 2020, 59, 1641-1642.	1.2	0
171	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. Journal of Chemical & Engineering Data, 2020, 65, 2253-2254.	1.0	0
172	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. Organic Process Research and Development, 2020, 24, 872-873.	1.3	0
173	A 3D human brainâ€"like tissue model of herpes-induced Alzheimerâ€™s disease. Science Advances, 2020, 6, eaay8828.	4.7	159
174	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Omega, 2020, 5, 9624-9625.	1.6	0
175	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Applied Electronic Materials, 2020, 2, 1184-1185.	2.0	0
176	Modeling Controlled Cortical Impact Injury in 3D Brainâ€Like Tissue Cultures. Advanced Healthcare Materials, 2020, 9, e2000122.	3.9	21
177	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Applied Materials & Interfaces, 2020, 12, 20147-20148.	4.0	5
178	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. Journal of Physical Chemistry C, 2020, 124, 9629-9630.	1.5	0
179	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. Journal of Physical Chemistry Letters, 2020, 11, 3571-3572.	2.1	0
180	Update to Our Reader, Reviewer, and Author Communitiesâ€"April 2020. ACS Synthetic Biology, 2020, 9, 979-980.	1.9	0

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