Mark Grinstaff

List of Publications by Year
in descending order

427 papers	24,096 citations	6606 79 h-index	11047 137 g-index
454 all docs	454 docs citations	454 times ranked	27768 citing authors

#	Article	IF	Citations
1	Sonochemical synthesis of amorphous iron. Nature, 1991, 353, 414-416.	13.7	1,173
2	X-ray-Computed Tomography Contrast Agents. Chemical Reviews, 2013, 113, 1641-1666.	23.0	791
3	Local drug delivery strategies for cancer treatment: Gels, nanoparticles, polymeric films, rods, and wafers. Journal of Controlled Release, 2012, 159, 14-26.	4.8	686
4	The chemistry and engineering of polymeric hydrogel adhesives for wound closure: a tutorial. Chemical Society Reviews, 2015, 44, 1820-1835.	18.7	674
5	Biomedical applications of dendrimers: a tutorial. Chemical Society Reviews, 2011, 40, 173-190.	18.7	607
6	Polymerâ€“drug conjugate therapeutics: advances, insights and prospects. Nature Reviews Drug Discovery, 2019, 18, 273-294.	21.5	579
7	Therapeutic and diagnostic applications of dendrimers for cancer treatmentâ˜†. Advanced Drug Delivery Reviews, 2008, 60, 1037-1055.	6.6	487
8	Photocrosslinkable polysaccharides forin situ hydrogel formation. Journal of Biomedical Materials Research Part B, 2001, 54, 115-121.	3.0	409
9	Superhydrophobic materials for biomedical applications. Biomaterials, 2016, 104, 87-103.	5.7	331
10	Mechanism of catalytic oxygenation of alkanes by halogenated iron porphyrins. Science, 1994, 264, 1311-1313.	6.0	320
11	Direct-Writing of Polymer Nanostructures:â€‰ Poly(thiophene) Nanowires on Semiconducting and Insulating Surfaces. Journal of the American Chemical Society, 2002, 124, 522-523.	6.6	317
12	Expansile Nanoparticles: Synthesis, Characterization, and in Vivo Efficacy of an Acid-Responsive Polymeric Drug Delivery System. Journal of the American Chemical Society, 2009, 131, 2469-2471.	6.6	289
13	Dendrimer-Encapsulated Camptothecins: Increased Solubility, Cellular Uptake, and Cellular Retention Affords Enhanced Anticancer Activity In vitro. Cancer Research, 2006, 66, 11913-11921.	0.4	281
14	High temperature electrical energy storage: advances, challenges, and frontiers. Chemical Society Reviews, 2016, 45, 5848-5887.	18.7	268
15	Protein microencapsulation of nonaqueous liquids. Journal of the American Chemical Society, 1990, 112, 7807-7809.	6.6	256
16	Dendritic Molecular Capsules for Hydrophobic Compounds. Journal of the American Chemical Society, 2003, 125, 15485-15489.	6.6	232
17	Biocompatible and Bioactive Surface Modifications for Prolonged In Vivo Efficacy. Chemical Reviews, 2012, 112, 1615-1632.	23.0	224
18	Superhydrophobic Materials for Tunable Drug Release: Using Displacement of Air To Control Delivery Rates. Journal of the American Chemical Society, 2012, 134, 2016-2019.	6.6	223

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19	Local Cancer Recurrence: The Realities, Challenges, and Opportunities for New Therapies. Ca-A Cancer Journal for Clinicians, 2018, 68, 488-505.	157.7	211
20	Electrode materialâ€“ionic liquid coupling for electrochemical energy storage. Nature Reviews Materials, 2020, 5, 787-808.	23.3	210
21	Air-filled proteinaceous microbubbles: synthesis of an echo-contrast agent.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 7708-7710.	3.3	206
22	Biodendrimer-Based Hydrogel Scaffolds for Cartilage Tissue Repair. Biomacromolecules, 2006, 7, 310-316.	2.6	206
23	Biologically Responsive Polymeric Nanoparticles for Drug Delivery. Advanced Materials, 2012, 24, 3878-3886.	11.1	205
24	Photocrosslinkable Hyaluronan as a Scaffold for Articular Cartilage Repair. Annals of Biomedical Engineering, 2004, 32, 391-397.	1.3	204
25	Single-molecule protein sensing in a nanopore: a tutorial. Chemical Society Reviews, 2018, 47, 8512-8524.	18.7	203
26	Onâ€Demand Dissolution of a Dendritic Hydrogelâ€based Dressing for Secondâ€Degree Burn Wounds through Thiolâ€“Thioester Exchange Reaction. Angewandte Chemie - International Edition, 2016, 55, 9984-9987.	7.2	185
27	DNA-PEG-DNA Triblock Macromolecules for Reagentless DNA Detection. Journal of the American Chemical Society, 2004, 126, 10814-10815.	6.6	169
28	A Dendritic Thioester Hydrogel Based on Thiolâ€“Thioester Exchange as a Dissolvable Sealant System for Wound Closure. Angewandte Chemie - International Edition, 2013, 52, 14070-14074.	7.2	163
29	Nucleoside, nucleotide and oligonucleotide based amphiphiles: a successful marriage of nucleic acids with lipids. Organic and Biomolecular Chemistry, 2008, 6, 1324.	1.5	160
30	Designing hydrogel adhesives for corneal wound repair. Biomaterials, 2007, 28, 5205-5214.	5.7	157
31	Hybrid Dendriticâ”Linear Polyesterâ”Ethers for in Situ Photopolymerization. Journal of the American Chemical Society, 2002, 124, 5291-5293.	6.6	156
32	Biodendrimers: New Polymeric Biomaterials for Tissue Engineering. Chemistry - A European Journal, 2002, 8, 2838.	1.7	153
33	Embedded multicellular spheroids as a biomimetic 3D cancer model for evaluating drug and drug-device combinations. Biomaterials, 2014, 35, 2264-2271.	5.7	151
34	Magnetic properties of amorphous iron. Physical Review B, 1993, 48, 269-273.	1.1	147
35	Bioconjugated Oligonucleotides: Recent Developments and Therapeutic Applications. Bioconjugate Chemistry, 2019, 30, 366-383.	1.8	147
36	Exploiting Dendrimer Multivalency To Combat Emerging and Re-Emerging Infectious Diseases. Molecular Pharmaceutics, 2012, 9, 342-354.	2.3	145

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37	3D superhydrophobic electrospun meshes as reinforcement materials for sustained local drug delivery against colorectal cancer cells. Journal of Controlled Release, 2012, 162, 92-101.	4.8	143
38	Structures, Electronic Properties, and Oxidation-Reduction Reactivity of Halogenated Iron Porphyrins. Inorganic Chemistry, 1995, 34, 4896-4902.	1.9	133
39	Silver Nanoparticle-Catalyzed Dielsâ˜Alder Cycloadditions of 2â€²-Hydroxychalcones. Journal of the American Chemical Society, 2010, 132, 7514-7518.	6.6	131
40	Aqueous Ringâ€Opening Polymerizationâ€Induced Selfâ€Assembly (ROPISA) of Nâ€Carboxyanhydrides. Angewandte Chemie - International Edition, 2020, 59, 622-626.	7.2	129
41	Recapitulating bone development through engineered mesenchymal condensations and mechanical cues for tissue regeneration. Science Translational Medicine, 2019, 11, .	5.8	126
42	Functional lipids and lipoplexes for improved gene delivery. Biochimie, 2012, 94, 42-58.	1.3	124
43	Supramolecular Assemblies of Nucleoside Phosphocholine Amphiphiles. Journal of the American Chemical Society, 2004, 126, 7533-7539.	6.6	121
44	Dendritic Macromers as in Situ Polymerizing Biomaterials for Securing Cataract Incisions. Journal of the American Chemical Society, 2004, 126, 12744-12745.	6.6	120
45	Anionic Amphiphilic Dendrimers as Antibacterial Agents. Journal of the American Chemical Society, 2008, 130, 14444-14445.	6.6	118
46	Directed Assembly of PEGylated-Peptide Coatings for Infection-Resistant Titanium Metal. Journal of the American Chemical Society, 2009, 131, 10992-10997.	6.6	117
47	Synthesis of Atactic and Isotactic Poly(1,2-glycerol carbonate)s: Degradable Polymers for Biomedical and Pharmaceutical Applications. Journal of the American Chemical Society, 2013, 135, 6806-6809.	6.6	117
48	Tunable pores for measuring concentrations of synthetic and biological nanoparticle dispersions. Biosensors and Bioelectronics, 2012, 31, 17-25.	5.3	116
49	Recent Advances in Glycerol Polymers: Chemistry and Biomedical Applications. Macromolecular Rapid Communications, 2014, 35, 1906-1924.	2.0	114
50	How Do Charges Travel through DNA?â€”An Update on a Current Debate. Angewandte Chemie - International Edition, 1999, 38, 3629-3635.	7.2	113
51	Breast Cancer Spheroids Reveal a Differential Cancer Stem Cell Response to Chemotherapeutic Treatment. Scientific Reports, 2017, 7, 10382.	1.6	112
52	19F NMR Spectra and Structures of Halogenated Porphyrins. Inorganic Chemistry, 1995, 34, 3625-3632.	1.9	111
53	Charge-Reversal Amphiphiles for Gene Delivery. Journal of the American Chemical Society, 2004, 126, 12196-12197.	6.6	110
54	Characterization of sonochemically prepared proteinaceous microspheres. Ultrasonics Sonochemistry, 1994, 1, S65-S68.	3.8	108

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55	Effect of cavitation conditions on amorphous metal synthesis. Ultrasonics, 1992, 30, 168-172.	2.1	105
56	Prevention of lung cancer recurrence using cisplatin-loaded superhydrophobic nanofiber meshes. Biomaterials, 2016, 76, 273-281.	5.7	105
57	Cationic Nucleoside Lipids for Gene Delivery. Bioconjugate Chemistry, 2006, 17, 466-472.	1.8	103
58	Palladium(0)-Catalyzed Modification of Oligonucleotides during Automated Solid-Phase Synthesis. Journal of the American Chemical Society, 1999, 121, 4704-4705.	6.6	100
59	Synthesis and Characterization of Polyetherâ^'Ester Dendrimers from Glycerol and Lactic Acid. Journal of the American Chemical Society, 2001, 123, 2905-2906.	6.6	98
60	Contrast Enhanced Computed Tomography can predict the glycosaminoglycan content and biomechanical properties of articular cartilage. Osteoarthritis and Cartilage, 2010, 18, 184-191.	0.6	98
61	On-Demand Dissolution of Chemically Cross-Linked Hydrogels. Accounts of Chemical Research, 2017, 50, 151-160.	7.6	98
62	Chemical synthesis of polysaccharides and polysaccharide mimetics. Progress in Polymer Science, 2017, 74, 78-116.	11.8	98
63	Synthesis and Characterization of Poly(glycerolâ^'succinic acid) Dendrimers. Macromolecules, 2001, 34, 7648-7655.	2.2	97
64	Polycarbonate and Poly(carbonateâ^'ester)s Synthesized from Biocompatible Building Blocks of Glycerol and Lactic Acid. Macromolecules, 2003, 36, 3557-3562.	2.2	97
65	Probing the Electronic Structure of Platinum(II) Chromophores:â€‰ Crystal Structures, NMR Structures, and Photophysical Properties of Six New Bis- and Di- Phenolate/Thiolate Pt(II)Diimine Chromophores. Inorganic Chemistry, 2006, 45, 4544-4555.	1.9	97
66	Synthesis and Properties of Supramolecular Ionic Networks. Journal of the American Chemical Society, 2008, 130, 9648-9649.	6.6	96
67	Design, synthesis, and biomedical applications of synthetic sulphated polysaccharides. Chemical Society Reviews, 2019, 48, 2338-2365.	18.7	93
68	Conformationally Gated Electrochemical Gene Detection. ChemBioChem, 2004, 5, 1100-1103.	1.3	91
69	Effect of Contrast Agent Charge on Visualization of Articular Cartilage Using Computed Tomography: Exploiting Electrostatic Interactions for Improved Sensitivity. Journal of the American Chemical Society, 2009, 131, 13234-13235.	6.6	90
70	Cationic contrast agents improve quantification of glycosaminoglycan (GAG) content by contrast enhanced CT imaging of cartilage. Journal of Orthopaedic Research, 2011, 29, 704-709.	1.2	90
71	Applications of Dendrimers in Tissue Engineering. Current Topics in Medicinal Chemistry, 2008, 8, 1225-1236.	1.0	89
72	Biomass-Based Fuels and Activated Carbon Electrode Materials: An Integrated Approach to Green Energy Systems. ACS Sustainable Chemistry and Engineering, 2017, 5, 3046-3054.	3.2	89

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73	A Mechanistic Study of Wetting Superhydrophobic Porous 3D Meshes. Advanced Functional Materials, 2013, 23, 3628-3637.	7.8	87
74	Synthesis and Characterization of Fluorenone-, Anthraquinone-, and Phenothiazine-Labeled Oligodeoxynucleotides:Â 5â€˜-Probes for DNA Redox Chemistry. Journal of Organic Chemistry, 2000, 65, 5355-5359.	1.7	86
75	A Nanoporeâ€“Nanofiber Mesh Biosensor To Control DNA Translocation. Journal of the American Chemical Society, 2013, 135, 16304-16307.	6.6	84
76	Mechanoresponsive materials for drug delivery: Harnessing forces for controlled release. Advanced Drug Delivery Reviews, 2017, 108, 68-82.	6.6	84
77	Aerobic oxidation of hydrocarbons catalyzed by electronegative iron salen complexes. Journal of Molecular Catalysis A, 1996, 113, 191-200.	4.8	83
78	Hydrogels Formed by Multiple Peptide Ligation Reactions To Fasten Corneal Transplants. Bioconjugate Chemistry, 2006, 17, 873-876.	1.8	83
79	The Selfâ€Assembly of Anticancer Camptothecinâ€“Dipeptide Nanotubes: A Minimalistic and High Drug Loading Approach to Increased Efficacy. Chemistry - A European Journal, 2015, 21, 101-105.	1.7	83
80	New Dendritic Adhesives for Sutureless Ophthalmic Surgical Procedures. JAMA Ophthalmology, 2004, 122, 867.	2.6	81
81	Contrast agent electrostatic attraction rather than repulsion to glycosaminoglycans affords a greater contrast uptake ratio and improved quantitative CT imaging in cartilage. Osteoarthritis and Cartilage, 2011, 19, 970-976.	0.6	81
82	In vivo measurement of oxygen concentration using sonochemically synthesized microspheres. Biophysical Journal, 1994, 67, 896-901.	0.2	80
83	Poly-amido-saccharides: Synthesis via Anionic Polymerization of a Î²-Lactam Sugar Monomer. Journal of the American Chemical Society, 2012, 134, 16255-16264.	6.6	79
84	Contrast-enhanced CT with a High-Affinity Cationic Contrast Agent for Imaging ex Vivo Bovine, Intact ex Vivo Rabbit, and in Vivo Rabbit Cartilage. Radiology, 2013, 266, 141-150.	3.6	76
85	A Photopolymerized Sealant for Corneal Lacerations. Cornea, 2002, 21, 393-399.	0.9	73
86	Hydrogels for Osteochondral Repair Based on Photocrosslinkable Carbamate Dendrimers. Biomacromolecules, 2008, 9, 2863-2872.	2.6	71
87	From Simple to Architecturally Complex Hydrogel Scaffolds for Cell and Tissue Engineering Applications: Opportunities Presented by Twoâ€Photon Polymerization. Advanced Healthcare Materials, 2020, 9, e1901217.	3.9	70
88	Meta-analysis and Systematic Review of Skin Graft Donor-site Dressings with Future Guidelines. Plastic and Reconstructive Surgery - Global Open, 2018, 6, e1928.	0.3	69
89	Sonoluminescence from metal carbonyls. The Journal of Physical Chemistry, 1993, 97, 3098-3099.	2.9	68
90	Synthesis of Generational Polyester Dendrimers Derived from Glycerol and Succinic or Adipic Acid. Macromolecules, 2006, 39, 609-616.	2.2	67

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91	IRGM1 links mitochondrial quality control to autoimmunity. Nature Immunology, 2021, 22, 312-321.	7.0	67
92	On the Second-Order Nonlinear Optical Structureâ^'Property Relationships of Metal Chromophores. Inorganic Chemistry, 1999, 38, 287-289.	1.9	66
93	Dendritic macromers for hydrogel formation: Tailored materials for ophthalmic, orthopedic, and biotech applications. Journal of Polymer Science Part A, 2008, 46, 383-400.	2.5	64
94	The development of peptide-based interfacial biomaterials for generating biological functionality on the surface of bioinert materials. Biomaterials, 2009, 30, 277-286.	5.7	62
95	Prevention of Local Tumor Recurrence Following Surgery Using Low-Dose Chemotherapeutic Polymer Films. Annals of Surgical Oncology, 2010, 17, 1203-1213.	0.7	62
96	Generation of an Unprecedented Excited State Oxidant in a Coordinately Unsaturated Platinum Complex. Inorganic Chemistry, 1998, 37, 1432-1433.	1.9	61
97	Synthetic Biomaterials from Metabolically Derived Synthons. Chemical Reviews, 2016, 116, 2664-2704.	23.0	61
98	Embedded Spheroids as Models of the Cancer Microenvironment. Advanced Biology, 2017, 1, 1700083.	3.0	61
99	Image-Guided Sentinel Lymph Node Mapping and Nanotechnology-Based Nodal Treatment in Lung Cancer Using Invisible Near-Infrared Fluorescent Light. Seminars in Thoracic and Cardiovascular Surgery, 2009, 21, 309-315.	0.4	60
100	A Large-Molecular-Weight Polyanion, Synthesized via Ring-Opening Metathesis Polymerization, as a Lubricant for Human Articular Cartilage. Journal of the American Chemical Society, 2013, 135, 4930-4933.	6.6	60
101	Self-assembly of a 5-fluorouracil-dipeptide hydrogel. Chemical Communications, 2016, 52, 5254-5257.	2.2	60
102	Lysosome acidification by photoactivated nanoparticles restores autophagy under lipotoxicity. Journal of Cell Biology, 2016, 214, 25-34.	2.3	59
103	Mimicking the tumor microenvironment to regulate macrophage phenotype and assessing chemotherapeutic efficacy in embedded cancer cell/macrophage spheroid models. Acta Biomaterialia, 2017, 50, 271-279.	4.1	59
104	Charge-Reversal Lipids, Peptide-Based Lipids, and Nucleoside-Based Lipids for Gene Delivery. Accounts of Chemical Research, 2012, 45, 1026-1038.	7.6	58
105	Cation Tuning of Supramolecular Gel Properties: A New Paradigm for Sustained Drug Delivery. Advanced Materials, 2017, 29, 1605227.	11.1	58
106	Sustainable polycarbonate adhesives for dry and aqueous conditions with thermoresponsive properties. Nature Communications, 2019, 10, 5478.	5.8	58
107	On the mechanism of catalytic alkene oxidation by molecular oxygen and halogenated iron porphyrins. Journal of Molecular Catalysis A, 1995, 104, L119-L122.	4.8	57
108	Dendritic supramolecular assemblies for drug delivery. Chemical Communications, 2005, , 4309.	2.2	57

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109	Synthesis and Characterization of Dendron Cross-Linked PEG Hydrogels as Corneal Adhesives. Biomacromolecules, 2011, 12, 1658-1665.	2.6	57
110	Automated Solid-Phase Synthesis of Site-Specifically Labeled Rutheniumâ˜Oligonucleotides. Inorganic Chemistry, 1999, 38, 418-419.	1.9	56
111	Photo-crosslinking of a self-assembled coumarin-dipeptide hydrogel. New Journal of Chemistry, 2015, 39, 3225-3228.	1.4	56
112	Prevention of in vivo lung tumor growth by prolonged local delivery of hydroxycamptothecin using poly(ester-carbonate)-collagen composites. Journal of Controlled Release, 2010, 144, 280-287.	4.8	55
113	Stretchâ€Induced Drug Delivery from Superhydrophobic Polymer Composites: Use of Crack Propagation Failure Modes for Controlling Release Rates. Angewandte Chemie - International Edition, 2016, 55, 2796-2800.	7.2	55
114	Staphylococcus aureus resistance on titanium coated with multivalent PEGylated-peptides. Biomaterials, 2010, 31, 9285-9292.	5.7	54
115	Layered superhydrophobic meshes for controlled drug release. Journal of Controlled Release, 2015, 214, 23-29.	4.8	54
116	SYNTHESIS OF A NOVEL POLYSACCHARIDE HYDROGEL. Journal of Macromolecular Science - Pure and Applied Chemistry, 1999, 36, 981-989.	1.2	54
117	Synthesis of bioinspired carbohydrate amphiphiles that promote and inhibit biofilms. Chemical Science, 2014, 5, 551-557.	3.7	53
118	A progesterone biosensor derived from microbial screening. Nature Communications, 2020, 11, 1276.	5.8	53
119	Poly(carbonate ester)s Based on Units of 6-Hydroxyhexanoic Acid and Glycerol. Macromolecules, 2007, 40, 7065-7068.	2.2	52
120	Recent Advances in Dendritic Macromonomers for Hydrogel Formation and Their Medical Applications. Biomacromolecules, 2016, 17, 1235-1252.	2.6	52
121	Dendritic polymers composed of glycerol and succinic acid: Synthetic methodologies and medical applications. Pure and Applied Chemistry, 2004, 76, 1375-1385.	0.9	51
122	Anionic Nucleotideâ˜Lipids for In Vitro DNA Transfection. Bioconjugate Chemistry, 2009, 20, 1765-1772.	1.8	51
123	Bioactive Stent Surface Coating That Promotes Endothelialization while Preventing Platelet Adhesion. Biomacromolecules, 2011, 12, 533-539.	2.6	51
124	The performance of expansile nanoparticles in a murine model of peritoneal carcinomatosis. Biomaterials, 2011, 32, 832-840.	5.7	51
125	Boneâ€Crack Detection, Targeting, and Repair Using Ion Gradients. Angewandte Chemie - International Edition, 2013, 52, 10997-11001.	7.2	51
126	Ionic Liquidâ€“Organic Carbonate Electrolyte Blends To Stabilize Silicon Electrodes for Extending Lithium Ion Battery Operability to 100 Â°C. ACS Applied Materials & Interfaces, 2016, 8, 15242-15249.	4.0	51

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127	Neutron diffraction on amorphous iron powder. Physical Review B, 1993, 48, 15797-15800.	1.1	50
128	Photo Cross-linkable Biodendrimers as Ophthalmic Adhesives for Central Lacerations and Penetrating Keratoplasties. , 2007, 48, 2037.		50
129	Microscopy and tunable resistive pulse sensing characterization of the swelling of pH-responsive, polymeric expansile nanoparticles. Nanoscale, 2013, 5, 3496.	2.8	50
130	Synthesis and Characterization of Poly(glyceric Acid Carbonate): A Degradable Analogue of Poly(acrylic Acid). Journal of the American Chemical Society, 2015, 137, 12660-12666.	6.6	50
131	How do electronegative substituents make metal complexes better catalysts for the oxidation of hydrocarbons by dioxygen?. Journal of Molecular Catalysis A, 1997, 117, 229-242.	4.8	49
132	Ophthalmic adhesives: a materials chemistry perspective. Journal of Materials Chemistry, 2008, 18, 2521.	6.7	49
133	Comparison of Sutures and Dendritic Polymer Adhesives for Corneal Laceration Repair in an In Vivo Chicken Model. JAMA Ophthalmology, 2009, 127, 442.	2.6	49
134	Cationic agent contrast-enhanced computed tomography imaging of cartilage correlates with the compressive modulus and coefficient of friction. Osteoarthritis and Cartilage, 2013, 21, 60-68.	0.6	49
135	Asah2 Represses the p53â€“Hmox1 Axis to Protect Myeloid-Derived Suppressor Cells from Ferroptosis. Journal of Immunology, 2021, 206, 1395-1404.	0.4	49
136	Macropinocytosis Is the Major Pathway Responsible for DNA Transfection in CHO Cells by a Charge-Reversal Amphiphile. Molecular Pharmaceutics, 2011, 8, 758-766.	2.3	48
137	Tantalum Oxide Nanoparticles for the Imaging of Articular Cartilage Using Xâ€Ray Computed Tomography: Visualization of Exâ€…Vivo/Inâ€…Vivo Murine Tibia and Exâ€…Vivo Human Index Finger Cartilage. Angewandte Chemie - International Edition, 2014, 53, 8406-8410.	7.2	48
138	Electron transfer in cytochrome c depends upon the structure of the intervening medium. Structure, 1994, 2, 415-422.	1.6	46
139	Nucleic Acid Complexing Glycosyl Nucleoside-Based Amphiphile. Bioconjugate Chemistry, 2005, 16, 864-872.	1.8	46
140	Peptide Interfacial Biomaterials Improve Endothelial Cell Adhesion and Spreading on Synthetic Polyglycolic Acid Materials. Annals of Biomedical Engineering, 2010, 38, 1965-1976.	1.3	46
141	Diphosphonium Ionic Liquids as Broad-Spectrum Antimicrobial Agents. Cornea, 2012, 31, 810-816.	0.9	45
142	Contrastâ€enhanced CT using a cationic contrast agent enables nonâ€destructive assessment of the biochemical and biomechanical properties of mouse tibial plateau cartilage. Journal of Orthopaedic Research, 2016, 34, 1130-1138.	1.2	45
143	Single-Molecule Discrimination of Labeled DNAs and Polypeptides Using Photoluminescent-Free TiO₂ Nanopores. ACS Nano, 2018, 12, 11648-11656.	7.3	45
144	Endothelialization of Titanium Surfaces. Advanced Materials, 2007, 19, 2492-2498.	11.1	44

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145	Paclitaxel-Eluting Polymer Film Reduces Locoregional Recurrence and Improves Survival in a Recurrent Sarcoma Model: A Novel Investigational Therapy. Annals of Surgical Oncology, 2012, 19, 199-206.	0.7	44
146	Synthesis and Aqueous Aggregation Properties of Amphiphilic Surface-Block Dendrimers. Organic Letters, 2005, 7, 4863-4866.	2.4	43
147	Lipophilic Peptides for Gene Delivery. Bioconjugate Chemistry, 2008, 19, 418-420.	1.8	43
148	A Tissueâ€Penetrating Double Network Restores the Mechanical Properties of Degenerated Articular Cartilage. Angewandte Chemie - International Edition, 2016, 55, 4226-4230.	7.2	43
149	Highly Specific and Sensitive Fluorescent Nanoprobes for Image-Guided Resection of Sub-Millimeter Peritoneal Tumors. ACS Nano, 2017, 11, 1466-1477.	7.3	43
150	Piperidinium ionic liquids as electrolyte solvents for sustained high temperature supercapacitor operation. Chemical Communications, 2018, 54, 5590-5593.	2.2	43
151	Active agents, biomaterials, and technologies to improve biolubrication and strengthen soft tissues. Biomaterials, 2018, 181, 210-226.	5.7	42
152	The Convergent Synthesis of Poly(glycerol-succinic acid) Dendritic Macromolecules. Chemistry - A European Journal, 2003, 9, 5618-5626.	1.7	41
153	In Vitro Activity of Paclitaxel-Loaded Polymeric Expansile Nanoparticles in Breast Cancer Cells. Biomacromolecules, 2013, 14, 2074-2082.	2.6	41
154	Meroterpenoids from Neosetophoma sp.: A Dioxa[4.3.3]propellane Ring System, Potent Cytotoxicity, and Prolific Expression. Organic Letters, 2019, 21, 529-534.	2.4	41
155	Synthesis and Creep-Recovery Behavior of a Neat Viscoelastic Polymeric Network Formed through Electrostatic Interactions. Macromolecules, 2010, 43, 9529-9533.	2.2	40
156	Carboxylated Glucuronic Poly-amido-saccharides as Protein Stabilizing Agents. Journal of the American Chemical Society, 2014, 136, 9544-9547.	6.6	40
157	Synthesis of Aliphatic Poly(ether 1,2-glycerol carbonate)s via Copolymerization of CO₂ with Glycidyl Ethers Using a Cobalt Salen Catalyst and Study of a Thermally Stable Solid Polymer Electrolyte. ACS Macro Letters, 2015, 4, 533-537.	2.3	40
158	Sensing Native Protein Solution Structures Using a Solid-state Nanopore: Unraveling the States of VEGF. Scientific Reports, 2018, 8, 1017.	1.6	40
159	SUV39H1 Represses the Expression of Cytotoxic T-Lymphocyte Effector Genes to Promote Colon Tumor Immune Evasion. Cancer Immunology Research, 2019, 7, 414-427.	1.6	40
160	Peptide-PEG Amphiphiles as Cytophobic Coatings for Mammalian and Bacterial Cells. Chemistry and Biology, 2006, 13, 695-700.	6.2	39
161	Prevention of nodal metastases in breast cancer following the lymphatic migration of paclitaxel-loaded expansile nanoparticles. Biomaterials, 2013, 34, 1810-1819.	5.7	39
162	Thermally-responsive, nonflammable phosphonium ionic liquid electrolytes for lithium metal batteries: operating at 100 degrees celsius. Chemical Science, 2015, 6, 6601-6606.	3.7	39

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163	Synthesis and Excited-State Properties of a Novel Ruthenium Nucleoside:Â 5-[Ru(bpy)2(4-m-4â€˜-pa-bpy)]2+-2â€˜-deoxyuridine. Inorganic Chemistry, 1999, 38, 2411-2415.	1.9	38
164	A facile approach to robust superhydrophobic 3D coatings via connective-particle formation using the electrospraying process. Chemical Communications, 2013, 49, 804-806.	2.2	38
165	Glass Transition Temperature of Polymerâ€“Nanoparticle Composites: Effect of Polymerâ€“Particle Interfacial Energy. Macromolecules, 2013, 46, 4663-4669.	2.2	38
166	Nanoparticle drugâ€delivery systems for peritoneal cancers: a case study of the design, characterization and development of the expansile nanoparticle. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2017, 9, e1451.	3.3	37
167	Synthesis and Stability of Oligodeoxynucleotides Containing C8-Labeled 2â€˜-Deoxyadenosine:â€‰ Novel Redox Nucleobase Probes for DNA-Mediated Charge-Transfer Studies. Organic Letters, 2000, 2, 3413-3416.	2.4	36
168	Photoinduced Electron Transfer in an Oligodeoxynucleotide Duplex:Â Observation of the Electron-Transfer Intermediate. Journal of Physical Chemistry B, 2000, 104, 7574-7576.	1.2	36
169	Nucleoside phosphocholine amphiphile for in vitro DNA transfection. Molecular BioSystems, 2005, 1, 260-264.	2.9	36
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