

# Mark Grinstaff

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

391  
papers

19,529  
citations

72  
h-index

124  
g-index

454  
ext. papers

21,789  
ext. citations

9.3  
avg, IF

7.32  
L-index

#	Paper	IF	Citations
391	Sonochemical synthesis of amorphous iron. <i>Nature</i> , <b>1991</b> , 353, 414-416	50.4	1037
390	X-ray-computed tomography contrast agents. <i>Chemical Reviews</i> , <b>2013</b> , 113, 1641-66	68.1	613
389	Local drug delivery strategies for cancer treatment: gels, nanoparticles, polymeric films, rods, and wafers. <i>Journal of Controlled Release</i> , <b>2012</b> , 159, 14-26	11.7	564
388	Biomedical applications of dendrimers: a tutorial. <i>Chemical Society Reviews</i> , <b>2011</b> , 40, 173-90	58.5	557
387	The chemistry and engineering of polymeric hydrogel adhesives for wound closure: a tutorial. <i>Chemical Society Reviews</i> , <b>2015</b> , 44, 1820-35	58.5	480
386	Therapeutic and diagnostic applications of dendrimers for cancer treatment. <i>Advanced Drug Delivery Reviews</i> , <b>2008</b> , 60, 1037-55	18.5	432
385	Polymer-drug conjugate therapeutics: advances, insights and prospects. <i>Nature Reviews Drug Discovery</i> , <b>2019</b> , 18, 273-294	64.1	360
384	Photocrosslinkable polysaccharides for in situ hydrogel formation. <i>Journal of Biomedical Materials Research Part B</i> , <b>2001</b> , 54, 115-21		355
383	Direct-writing of polymer nanostructures: poly(thiophene) nanowires on semiconducting and insulating surfaces. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 522-3	16.4	288
382	Mechanism of catalytic oxygenation of alkanes by halogenated iron porphyrins. <i>Science</i> , <b>1994</b> , 264, 1311-3	33.3	282
381	Dendrimer-encapsulated camptothecins: increased solubility, cellular uptake, and cellular retention affords enhanced anticancer activity in vitro. <i>Cancer Research</i> , <b>2006</b> , 66, 11913-21	10.1	262
380	Expansile nanoparticles: synthesis, characterization, and in vivo efficacy of an acid-responsive polymeric drug delivery system. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 2469-71	16.4	261
379	Superhydrophobic materials for biomedical applications. <i>Biomaterials</i> , <b>2016</b> , 104, 87-103	15.6	246
378	Protein microencapsulation of nonaqueous liquids. <i>Journal of the American Chemical Society</i> , <b>1990</b> , 112, 7807-7809	16.4	240
377	Dendritic molecular capsules for hydrophobic compounds. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 15485-9	16.4	217
376	Superhydrophobic materials for tunable drug release: using displacement of air to control delivery rates. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 2016-9	16.4	201
375	Biocompatible and bioactive surface modifications for prolonged in vivo efficacy. <i>Chemical Reviews</i> , <b>2012</b> , 112, 1615-32	68.1	195

374	Air-filled proteinaceous microbubbles: synthesis of an echo-contrast agent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1991</b> , 88, 7708-10	11.5	187
373	Biodendrimer-based hydrogel scaffolds for cartilage tissue repair. <i>Biomacromolecules</i> , <b>2006</b> , 7, 310-6	6.9	185
372	High temperature electrical energy storage: advances, challenges, and frontiers. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 5848-5887	58.5	182
371	Photocrosslinkable hyaluronan as a scaffold for articular cartilage repair. <i>Annals of Biomedical Engineering</i> , <b>2004</b> , 32, 391-7	4.7	176
370	Biologically responsive polymeric nanoparticles for drug delivery. <i>Advanced Materials</i> , <b>2012</b> , 24, 3878-8624		165
369	DNA-PEG-DNA triblock macromolecules for reagentless DNA detection. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 10814-5	16.4	162
368	Nucleoside, nucleotide and oligonucleotide based amphiphiles: a successful marriage of nucleic acids with lipids. <i>Organic and Biomolecular Chemistry</i> , <b>2008</b> , 6, 1324-33	3.9	148
367	Hybrid dendritic-linear polyester-ethers for in situ photopolymerization. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 5291-3	16.4	146
366	Magnetic properties of amorphous iron. <i>Physical Review B</i> , <b>1993</b> , 48, 269-273	3.3	135
365	Designing hydrogel adhesives for corneal wound repair. <i>Biomaterials</i> , <b>2007</b> , 28, 5205-14	15.6	134
364	Biodendrimers: New Polymeric Biomaterials for Tissue Engineering. <i>Chemistry - A European Journal</i> , <b>2002</b> , 8, 2838	4.8	131
363	A dendritic thioester hydrogel based on thiol-thioester exchange as a dissolvable sealant system for wound closure. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 14070-4	16.4	125
362	Single-molecule protein sensing in a nanopore: a tutorial. <i>Chemical Society Reviews</i> , <b>2018</b> , 47, 8512-8524	58.5	125
361	3D superhydrophobic electrospun meshes as reinforcement materials for sustained local drug delivery against colorectal cancer cells. <i>Journal of Controlled Release</i> , <b>2012</b> , 162, 92-101	11.7	124
360	On-Demand Dissolution of a Dendritic Hydrogel-based Dressing for Second-Degree Burn Wounds through Thiol-Thioester Exchange Reaction. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 9984-7	16.4	122
359	Supramolecular assemblies of nucleoside phosphocholine amphiphiles. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 7533-9	16.4	121
358	Exploiting dendrimer multivalency to combat emerging and re-emerging infectious diseases. <i>Molecular Pharmaceutics</i> , <b>2012</b> , 9, 342-54	5.6	118
357	Structures, Electronic Properties, and Oxidation-Reduction Reactivity of Halogenated Iron Porphyrins. <i>Inorganic Chemistry</i> , <b>1995</b> , 34, 4896-4902	5.1	118

356	Embedded multicellular spheroids as a biomimetic 3D cancer model for evaluating drug and drug-device combinations. <i>Biomaterials</i> , <b>2014</b> , 35, 2264-71	15.6	115
355	Directed assembly of PEGylated-peptide coatings for infection-resistant titanium metal. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 10992-7	16.4	113
354	Silver nanoparticle-catalyzed Diels-Alder cycloadditions of 2-hydroxychalcones. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 7514-8	16.4	112
353	Functional lipids and lipoplexes for improved gene delivery. <i>Biochimie</i> , <b>2012</b> , 94, 42-58	4.6	107
352	Dendritic macromers as in situ polymerizing biomaterials for securing cataract incisions. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 12744-5	16.4	107
351	Local Cancer Recurrence: The Realities, Challenges, and Opportunities for New Therapies. <i>Ca-A Cancer Journal for Clinicians</i> , <b>2018</b> , 68, 488-505	220.7	106
350	Synthesis of atactic and isotactic poly(1,2-glycerol carbonate)s: degradable polymers for biomedical and pharmaceutical applications. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 6806-9	16.4	105
349	Tunable pores for measuring concentrations of synthetic and biological nanoparticle dispersions. <i>Biosensors and Bioelectronics</i> , <b>2012</b> , 31, 17-25	11.8	104
348	Charge-reversal amphiphiles for gene delivery. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 12196-7	16.4	104
347	Anionic amphiphilic dendrimers as antibacterial agents. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 14444-5	16.4	103
346	How Do Charges Travel through DNA?-An Update on a Current Debate. <i>Angewandte Chemie - International Edition</i> , <b>1999</b> , 38, 3629-3635	16.4	99
345	Characterization of sonochemically prepared proteinaceous microspheres. <i>Ultrasonics Sonochemistry</i> , <b>1994</b> , 1, S65-S68	8.9	98
344	Cationic nucleoside lipids for gene delivery. <i>Bioconjugate Chemistry</i> , <b>2006</b> , 17, 466-72	6.3	97
343	<sup>19</sup> F NMR Spectra and Structures of Halogenated Porphyrins. <i>Inorganic Chemistry</i> , <b>1995</b> , 34, 3625-3632	5.1	94
342	Polycarbonate and Poly(carbonate-ester)s Synthesized from Biocompatible Building Blocks of Glycerol and Lactic Acid. <i>Macromolecules</i> , <b>2003</b> , 36, 3557-3562	5.5	93
341	Synthesis and characterization of polyether-ester dendrimers from glycerol and lactic acid. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 2905-6	16.4	90
340	Palladium(0)-Catalyzed Modification of Oligonucleotides during Automated Solid-Phase Synthesis. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 4704-4705	16.4	90
339	Effect of cavitation conditions on amorphous metal synthesis. <i>Ultrasonics</i> , <b>1992</b> , 30, 168-172	3.5	90

338	Recent advances in glycerol polymers: chemistry and biomedical applications. <i>Macromolecular Rapid Communications</i> , <b>2014</b> , 35, 1906-24	4.8	89
337	Probing the electronic structure of platinum(II) chromophores: crystal structures, NMR structures, and photophysical properties of six new bis- and di- phenolate/thiolate Pt(II)diimine chromophores. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 4544-55	5.1	89
336	Electrode material-ionic liquid coupling for electrochemical energy storage. <i>Nature Reviews Materials</i> , <b>2020</b> , 5, 787-808	73.3	89
335	Bioconjugated Oligonucleotides: Recent Developments and Therapeutic Applications. <i>Bioconjugate Chemistry</i> , <b>2019</b> , 30, 366-383	6.3	88
334	Synthesis and properties of supramolecular ionic networks. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 9648-9	16.4	86
333	Conformationally gated electrochemical gene detection. <i>ChemBioChem</i> , <b>2004</b> , 5, 1100-3	3.8	86
332	Synthesis and Characterization of Poly(glycerol-ε-glucinic acid) Dendrimers. <i>Macromolecules</i> , <b>2001</b> , 34, 7648-7655	5.5	86
331	Contrast enhanced computed tomography can predict the glycosaminoglycan content and biomechanical properties of articular cartilage. <i>Osteoarthritis and Cartilage</i> , <b>2010</b> , 18, 184-91	6.2	85
330	Prevention of lung cancer recurrence using cisplatin-loaded superhydrophobic nanofiber meshes. <i>Biomaterials</i> , <b>2016</b> , 76, 273-81	15.6	83
329	Synthesis and characterization of fluorenone-, anthraquinone-, and phenothiazine-labeled oligodeoxynucleotides: 5' probes for DNA redox chemistry. <i>Journal of Organic Chemistry</i> , <b>2000</b> , 65, 5355-59 <sup>2</sup>	4.2	83
328	Applications of dendrimers in tissue engineering. <i>Current Topics in Medicinal Chemistry</i> , <b>2008</b> , 8, 1225-36	3	82
327	Cationic contrast agents improve quantification of glycosaminoglycan (GAG) content by contrast enhanced CT imaging of cartilage. <i>Journal of Orthopaedic Research</i> , <b>2011</b> , 29, 704-9	3.8	80
326	A Mechanistic Study of Wetting Superhydrophobic Porous 3D Meshes. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 3628-3637	15.6	77
325	In vivo measurement of oxygen concentration using sonochemically synthesized microspheres. <i>Biophysical Journal</i> , <b>1994</b> , 67, 896-901	2.9	77
324	Effect of contrast agent charge on visualization of articular cartilage using computed tomography: exploiting electrostatic interactions for improved sensitivity. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 13234-5	16.4	76
323	Aerobic oxidation of hydrocarbons catalyzed by electronegative iron salen complexes. <i>Journal of Molecular Catalysis A</i> , <b>1996</b> , 113, 191-200		76
322	Hydrogels formed by multiple peptide ligation reactions to fasten corneal transplants. <i>Bioconjugate Chemistry</i> , <b>2006</b> , 17, 873-6	6.3	74
321	A nanopore-nanofiber mesh biosensor to control DNA translocation. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 16304-7	16.4	73

320	Breast Cancer Spheroids Reveal a Differential Cancer Stem Cell Response to Chemotherapeutic Treatment. <i>Scientific Reports</i> , <b>2017</b> , 7, 10382	4.9	73
319	New dendritic adhesives for sutureless ophthalmic surgical procedures: in vitro studies of corneal laceration repair. <i>JAMA Ophthalmology</i> , <b>2004</b> , 122, 867-70		72
318	The self-assembly of anticancer camptothecin-dipeptide nanotubes: a minimalistic and high drug loading approach to increased efficacy. <i>Chemistry - A European Journal</i> , <b>2015</b> , 21, 101-5	4.8	69
317	Chemical synthesis of polysaccharides and polysaccharide mimetics. <i>Progress in Polymer Science</i> , <b>2017</b> , 74, 78-116	29.6	66
316	Contrast agent electrostatic attraction rather than repulsion to glycosaminoglycans affords a greater contrast uptake ratio and improved quantitative CT imaging in cartilage. <i>Osteoarthritis and Cartilage</i> , <b>2011</b> , 19, 970-6	6.2	66
315	Biomass-Based Fuels and Activated Carbon Electrode Materials: An Integrated Approach to Green Energy Systems. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 3046-3054	8.3	65
314	Hydrogels for osteochondral repair based on photocrosslinkable carbamate dendrimers. <i>Biomacromolecules</i> , <b>2008</b> , 9, 2863-72	6.9	65
313	Recapitulating bone development through engineered mesenchymal condensations and mechanical cues for tissue regeneration. <i>Science Translational Medicine</i> , <b>2019</b> , 11,	17.5	64
312	Poly-amido-saccharides: synthesis via anionic polymerization of a lactam sugar monomer. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 16255-64	16.4	64
311	Contrast-enhanced CT with a high-affinity cationic contrast agent for imaging ex vivo bovine, intact ex vivo rabbit, and in vivo rabbit cartilage. <i>Radiology</i> , <b>2013</b> , 266, 141-50	20.5	64
310	A photopolymerized sealant for corneal lacerations. <i>Cornea</i> , <b>2002</b> , 21, 393-9	3.1	64
309	Aqueous Ring-Opening Polymerization-Induced Self-Assembly (ROPISA) of N-Carboxyanhydrides. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 622-626	16.4	64
308	Synthesis of Generational Polyester Dendrimers Derived from Glycerol and Succinic or Adipic Acid. <i>Macromolecules</i> , <b>2006</b> , 39, 609-616	5.5	63
307	Mechanoresponsive materials for drug delivery: Harnessing forces for controlled release. <i>Advanced Drug Delivery Reviews</i> , <b>2017</b> , 108, 68-82	18.5	61
306	The development of peptide-based interfacial biomaterials for generating biological functionality on the surface of bioinert materials. <i>Biomaterials</i> , <b>2009</b> , 30, 277-86	15.6	61
305	On-Demand Dissolution of Chemically Cross-Linked Hydrogels. <i>Accounts of Chemical Research</i> , <b>2017</b> , 50, 151-160	24.3	60
304	On the Second-Order Nonlinear Optical Structure-Property Relationships of Metal Chromophores. <i>Inorganic Chemistry</i> , <b>1999</b> , 38, 287-289	5.1	60
303	Design, synthesis, and biomedical applications of synthetic sulphated polysaccharides. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 2338-2365	58.5	59

302	Dendritic macromers for hydrogel formation: Tailored materials for ophthalmic, orthopedic, and biotech applications. <i>Journal of Polymer Science Part A</i> , <b>2008</b> , 46, 383-400	2.5	57
301	Sonoluminescence from metal carbonyls. <i>The Journal of Physical Chemistry</i> , <b>1993</b> , 97, 3098-3099		57
300	Synthetic Biomaterials from Metabolically Derived Synthons. <i>Chemical Reviews</i> , <b>2016</b> , 116, 2664-704	68.1	55
299	Prevention of local tumor recurrence following surgery using low-dose chemotherapeutic polymer films. <i>Annals of Surgical Oncology</i> , <b>2010</b> , 17, 1203-13	3.1	55
298	Generation of an Unprecedented Excited State Oxidant in a Coordinately Unsaturated Platinum Complex. <i>Inorganic Chemistry</i> , <b>1998</b> , 37, 1432-1433	5.1	55
297	On the mechanism of catalytic alkene oxidation by molecular oxygen and halogenated iron porphyrins. <i>Journal of Molecular Catalysis A</i> , <b>1995</b> , 104, L119-L122		54
296	Image-guided sentinel lymph node mapping and nanotechnology-based nodal treatment in lung cancer using invisible near-infrared fluorescent light. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , <b>2009</b> , 21, 309-15	1.7	52
295	Poly(carbonate ester)s Based on Units of 6-Hydroxyhexanoic Acid and Glycerol. <i>Macromolecules</i> , <b>2007</b> , 40, 7065-7068	5.5	51
294	Meta-analysis and Systematic Review of Skin Graft Donor-site Dressings with Future Guidelines. <i>Plastic and Reconstructive Surgery - Global Open</i> , <b>2018</b> , 6, e1928	1.2	51
293	Charge-reversal lipids, peptide-based lipids, and nucleoside-based lipids for gene delivery. <i>Accounts of Chemical Research</i> , <b>2012</b> , 45, 1026-38	24.3	50
292	Staphylococcus aureus resistance on titanium coated with multivalent PEGylated-peptides. <i>Biomaterials</i> , <b>2010</b> , 31, 9285-92	15.6	50
291	Prevention of in vivo lung tumor growth by prolonged local delivery of hydroxycamptothecin using poly(ester-carbonate)-collagen composites. <i>Journal of Controlled Release</i> , <b>2010</b> , 144, 280-7	11.7	50
290	Dendritic supramolecular assemblies for drug delivery. <i>Chemical Communications</i> , <b>2005</b> , 4309-11	5.8	50
289	Automated Solid-Phase Synthesis of Site-Specifically Labeled Ruthenium-Oligonucleotides. <i>Inorganic Chemistry</i> , <b>1999</b> , 38, 418-419	5.1	50
288	A large-molecular-weight polyanion, synthesized via ring-opening metathesis polymerization, as a lubricant for human articular cartilage. <i>Journal of the American Chemical Society</i> , <b>2013</b> , 135, 4930-3	16.4	49
287	Bioactive stent surface coating that promotes endothelialization while preventing platelet adhesion. <i>Biomacromolecules</i> , <b>2011</b> , 12, 533-9	6.9	49
286	Synthesis and characterization of dendron cross-linked PEG hydrogels as corneal adhesives. <i>Biomacromolecules</i> , <b>2011</b> , 12, 1658-65	6.9	48
285	Anionic nucleotide-lipids for in vitro DNA transfection. <i>Bioconjugate Chemistry</i> , <b>2009</b> , 20, 1765-72	6.3	48

284	Dendritic polymers composed of glycerol and succinic acid: Synthetic methodologies and medical applications. <i>Pure and Applied Chemistry</i> , <b>2004</b> , 76, 1375-1385	2.1	48
283	SYNTHESIS OF A NOVEL POLYSACCHARIDE HYDROGEL. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>1999</b> , 36, 981-989	2.2	48
282	Cation Tuning of Supramolecular Gel Properties: A New Paradigm for Sustained Drug Delivery. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605227	24	47
281	Self-assembly of a 5-fluorouracil-dipeptide hydrogel. <i>Chemical Communications</i> , <b>2016</b> , 52, 5254-7	5.8	47
280	Synthesis of Bioinspired Carbohydrate Amphiphiles that Promote and Inhibit Biofilms. <i>Chemical Science</i> , <b>2014</b> , 5,	9.4	46
279	How do electronegative substituents make metal complexes better catalysts for the oxidation of hydrocarbons by dioxygen?. <i>Journal of Molecular Catalysis A</i> , <b>1997</b> , 117, 229-242		46
278	Neutron diffraction on amorphous iron powder. <i>Physical Review B</i> , <b>1993</b> , 48, 15797-15800	3.3	46
277	Lysosome acidification by photoactivated nanoparticles restores autophagy under lipotoxicity. <i>Journal of Cell Biology</i> , <b>2016</b> , 214, 25-34	7.3	46
276	Microscopy and tunable resistive pulse sensing characterization of the swelling of pH-responsive, polymeric expansile nanoparticles. <i>Nanoscale</i> , <b>2013</b> , 5, 3496-504	7.7	45
275	Ophthalmic adhesives: a materials chemistry perspective. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 2521		45
274	Photo cross-linkable Biodendrimers as ophthalmic adhesives for central lacerations and penetrating keratoplasties. <i>Investigative Ophthalmology and Visual Science</i> , <b>2007</b> , 48, 2037-42		45
273	Layered superhydrophobic meshes for controlled drug release. <i>Journal of Controlled Release</i> , <b>2015</b> , 214, 23-9	11.7	44
272	Comparison of sutures and dendritic polymer adhesives for corneal laceration repair in an in vivo chicken model. <i>JAMA Ophthalmology</i> , <b>2009</b> , 127, 442-7		44
271	Nucleic acid complexing glycosyl nucleoside-based amphiphile. <i>Bioconjugate Chemistry</i> , <b>2005</b> , 16, 864-726.3		44
270	Electron transfer in cytochrome c depends upon the structure of the intervening medium. <i>Structure</i> , <b>1994</b> , 2, 415-22	5.2	44
269	Stretch-Induced Drug Delivery from Superhydrophobic Polymer Composites: Use of Crack Propagation Failure Modes for Controlling Release Rates. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 2796-800	16.4	44
268	Mimicking the tumor microenvironment to regulate macrophage phenotype and assessing chemotherapeutic efficacy in embedded cancer cell/macrophage spheroid models. <i>Acta Biomaterialia</i> , <b>2017</b> , 50, 271-279	10.8	43
267	Bone-crack detection, targeting, and repair using ion gradients. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 10997-1001	16.4	43



266	Cationic agent contrast-enhanced computed tomography imaging of cartilage correlates with the compressive modulus and coefficient of friction. <i>Osteoarthritis and Cartilage</i> , <b>2013</b> , 21, 60-8	6.2	43
265	The performance of expansile nanoparticles in a murine model of peritoneal carcinomatosis. <i>Biomaterials</i> , <b>2011</b> , 32, 832-40	15.6	43
264	Macropinocytosis is the major pathway responsible for DNA transfection in CHO cells by a charge-reversal amphiphile. <i>Molecular Pharmaceutics</i> , <b>2011</b> , 8, 758-66	5.6	43
263	Endothelialization of Titanium Surfaces. <i>Advanced Materials</i> , <b>2007</b> , 19, 2492-2498	24	43
262	From Simple to Architecturally Complex Hydrogel Scaffolds for Cell and Tissue Engineering Applications: Opportunities Presented by Two-Photon Polymerization. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e1901217	10.1	43
261	Synthesis and Characterization of Poly(glyceric Acid Carbonate): A Degradable Analogue of Poly(acrylic Acid). <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 12660-6	16.4	42
260	Recent Advances in Dendritic Macromonomers for Hydrogel Formation and Their Medical Applications. <i>Biomacromolecules</i> , <b>2016</b> , 17, 1235-52	6.9	42
259	Lipophilic peptides for gene delivery. <i>Bioconjugate Chemistry</i> , <b>2008</b> , 19, 418-20	6.3	42
258	Peptide interfacial biomaterials improve endothelial cell adhesion and spreading on synthetic polyglycolic acid materials. <i>Annals of Biomedical Engineering</i> , <b>2010</b> , 38, 1965-76	4.7	41
257	Synthesis and aqueous aggregation properties of amphiphilic surface-block dendrimers. <i>Organic Letters</i> , <b>2005</b> , 7, 4863-6	6.2	41
256	Ionic Liquid-Organic Carbonate Electrolyte Blends To Stabilize Silicon Electrodes for Extending Lithium Ion Battery Operability to 100 °C. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 15242-9	9.5	40
255	Tantalum oxide nanoparticles for the imaging of articular cartilage using X-ray computed tomography: visualization of ex vivo/in vivo murine tibia and ex vivo human index finger cartilage. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 8406-10	16.4	40
254	Embedded Spheroids as Models of the Cancer Microenvironment. <i>Advanced Biology</i> , <b>2017</b> , 1, 1700083	3.5	39
253	Photo-crosslinking of a self-assembled coumarin-dipeptide hydrogel. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 3225-3228	3.6	38
252	Paclitaxel-eluting polymer film reduces locoregional recurrence and improves survival in a recurrent sarcoma model: a novel investigational therapy. <i>Annals of Surgical Oncology</i> , <b>2012</b> , 19, 199-206 <sup>3.1</sup>		38
251	Diphosphonium ionic liquids as broad-spectrum antimicrobial agents. <i>Cornea</i> , <b>2012</b> , 31, 810-6	3.1	37
250	In vitro activity of Paclitaxel-loaded polymeric expansile nanoparticles in breast cancer cells. <i>Biomacromolecules</i> , <b>2013</b> , 14, 2074-82	6.9	36
249	Peptide-PEG amphiphiles as cytophobic coatings for mammalian and bacterial cells. <i>Chemistry and Biology</i> , <b>2006</b> , 13, 695-700		36

248	Synthesis and stability of oligodeoxynucleotides containing C8-labeled 2'-deoxyadenosine: novel redox nucleobase probes for DNA-mediated charge-transfer studies. <i>Organic Letters</i> , <b>2000</b> , 2, 3413-6	6.2	36
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246	Highly Specific and Sensitive Fluorescent Nanoprobes for Image-Guided Resection of Sub-Millimeter Peritoneal Tumors. <i>ACS Nano</i> , <b>2017</b> , 11, 1466-1477	16.7	35
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