Mark Grinstaff

List of Publications by Year
in descending order

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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	Dualâ€contrast computed tomography enables detection of equine posttraumatic osteoarthritis in vitro. Journal of Orthopaedic Research, 2022, 40, 703-711.	1.2	2
2	Raman needle arthroscopy for in vivo molecular assessment of cartilage. Journal of Orthopaedic Research, 2022, 40, 1338-1348.	1.2	8
3	G6PD functions as a metabolic checkpoint to regulate granzyme B expression in tumor-specific cytotoxic T lymphocytes. , 2022, 10, e003543.		10
4	Quantitative Luminescence Photography of a Swellable Hydrogel Dressing with a Trafficâ€Light Response to Oxygen. Advanced Healthcare Materials, 2022, 11, e2101605.	3.9	6
5	Paper-Based Progesterone Sensor Using an Allosteric Transcription Factor. ACS Omega, 2022, 7, 5804-5808.	1.6	3
6	OvoA_{Mtht}fromMethyloversatilis thermotoleransovothiol biosynthesis is a bifunction enzyme: thiol oxygenase and sulfoxide synthase activities. Chemical Science, 2022, 13, 3589-3598.	3.7	14
7	H3K9me3 represses G6PD expression to suppress the pentose phosphate pathway and ROS production to promote human mesothelioma growth. Oncogene, 2022, , .	2.6	10
8	Ultra-high drug loading improves nanoparticle efficacy against peritoneal mesothelioma. Biomaterials, 2022, 285, 121534.	5.7	5
9	Synthesis and Characterization of Regioselectively Functionalized Mono-Sulfated and -Phosphorylated Anionic Poly-Amido-Saccharides. Biomacromolecules, 2022, 23, 2075-2088.	2.6	4
10	An Allosteric Transcription Factor DNA-Binding Electrochemical Biosensor for Progesterone. ACS Sensors, 2022, 7, 1132-1137.	4.0	5
11	The quantum dot vs. organic dye conundrum for ratiometric FRET-based biosensors: which one would you chose?. Chemical Science, 2022, 13, 6715-6731.	3.7	5
12	A FoxA2+ long-term stem cell population is necessary for growth plate cartilage regeneration after injury. Nature Communications, 2022, 13, 2515.	5.8	22
13	Quantitative Luminescence Photography of a Swellable Hydrogel Dressing with a Trafficâ€Light Response to Oxygen (Adv. Healthcare Mater. 10/2022). Advanced Healthcare Materials, 2022, 11, .	3.9	1
14	Synthesis of Amphiphilic Diblock Poly-amido-saccharides and Self-Assembly of Polymeric Nanostructures. Macromolecules, 2022, 55, 5675-5684.	2.2	4
15	Cationic contrastâ€enhanced computed tomography distinguishes between reparative, degenerative, and healthy equine articular cartilage. Journal of Orthopaedic Research, 2021, 39, 1647-1657.	1.2	4
16	Quantitative Evaluation of Equine Articular Cartilage Using Cationic Contrast-Enhanced Computed Tomography. Cartilage, 2021, 12, 211-221.	1.4	8
17	Regulation of inflammatory and catabolic responses to IL-1Î² in rat articular chondrocytes by microRNAs miR-122 and miR-451. Osteoarthritis and Cartilage, 2021, 29, 113-123.	0.6	15
18	Effects of human articular cartilage constituents on simultaneous diffusion of cationic and nonionic contrast agents. Journal of Orthopaedic Research, 2021, 39, 771-779.	1.2	12

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19	Breath Hold Facilitates Targeted Deposition of Aerosolized Droplets in a 3D Printed Bifurcating Airway Tree. Annals of Biomedical Engineering, 2021, 49, 812-821.	1.3	4
20	Nanotechnology and Osteoarthritis. Part 1: Clinical landscape and opportunities for advanced diagnostics. Journal of Orthopaedic Research, 2021, 39, 465-472.	1.2	10
21	Nanotechnology and Osteoarthritis. Part 2: Opportunities for advanced devices and therapeutics. Journal of Orthopaedic Research, 2021, 39, 473-484.	1.2	10
22	IRGM1 links mitochondrial quality control to autoimmunity. Nature Immunology, 2021, 22, 312-321.	7.0	67
23	Biofabrication of a shape-stable auricular structure for the reconstruction of ear deformities. Materials Today Bio, 2021, 9, 100094.	2.6	16
24	Sulfated poly-amido-saccharides (sulPASs) are anticoagulants in vitro and in vivo. Chemical Science, 2021, 12, 12719-12725.	3.7	7
25	Sustainable glycerol carbonate electrolytes for Li-ion supercapacitors: performance evaluation of butyl, benzyl, and ethyl glycerol carbonates. Materials Advances, 2021, 2, 6049-6057.	2.6	3
26	Asah2 Represses the p53â€“Hmox1 Axis to Protect Myeloid-Derived Suppressor Cells from Ferroptosis. Journal of Immunology, 2021, 206, 1395-1404.	0.4	49
27	Quantitative dual contrast photon-counting computed tomography for assessment of articular cartilage health. Scientific Reports, 2021, 11, 5556.	1.6	11
28	Controlled Cell Alignment Using Twoâ€Photon Direct Laser Writingâ€Patterned Hydrogels in 2D and 3D. Macromolecular Bioscience, 2021, 21, e2100051.	2.1	11
29	Delivery of eupenifeldin via polymer-coated surgical buttresses prevents local lung cancer recurrence. Journal of Controlled Release, 2021, 331, 260-269.	4.8	10
30	Implications for an Imidazole-2-yl Carbene Intermediate in the Rhodanase-Catalyzed Câ€“S Bond Formation Reaction of Anaerobic Ergothioneine Biosynthesis. ACS Catalysis, 2021, 11, 3319-3334.	5.5	12
31	Humanized anti-DEspR IgG4S228P antibody increases overall survival in a pancreatic cancer stem cell-xenograft peritoneal carcinomatosis ratnu/nu model. BMC Cancer, 2021, 21, 407.	1.1	6
32	The Prognosis of Arthrofibroses: Prevalence, Clinical Shortcomings, and Future Prospects. Trends in Pharmacological Sciences, 2021, 42, 398-415.	4.0	7
33	Onâ€Site, Onâ€Demand 3Dâ€Printed Nasopharyngeal Swabs to Improve the Access of Coronavirus Diseaseâ€19 Testing. Global Challenges, 2021, 5, 2100039.	1.8	4
34	Temporary In Situ Hydrogel Dressings for Colon Polypectomies. ACS Biomaterials Science and Engineering, 2021, 7, 4362-4370.	2.6	5
35	Pilot-scale production of expansile nanoparticles: Practical methods for clinical scale-up. Journal of Controlled Release, 2021, 337, 144-154.	4.8	11
36	In situ gelling and dissolvable hydrogels for use as on-demand wound dressings for burns. Biomaterials Science, 2021, 9, 6842-6850.	2.6	20

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37	Aqueous ROPISA of Î±-amino acid N-carboxyanhydrides: polypeptide block secondary structure controls nanoparticle shape anisotropy. Polymer Chemistry, 2021, 12, 6242-6251.	1.9	27
38	Contrast-Enhanced Microâ€“Computed Tomography for 3D Visualization and Quantification of Glycosaminoglycans in Different Cartilage Types. Cartilage, 2021, 13, 486S-494S.	1.4	4
39	Influence of fixation on CA4+ contrast enhanced microCT of articular cartilage and subsequent feasibility for histological evaluation. American Journal of Translational Research (discontinued), 2021, 13, 8921-8937.	0.0	0
40	Sustainable glycerol terpolycarbonates as temporary bioadhesives. Biomaterials Science, 2021, 9, 8366-8372.	2.6	4
41	Tantalum Oxide Nanoparticles for the Quantitative Contrast-Enhanced Computed Tomography of Ex Vivo Human Cartilage: Assessment of Biochemical Composition and Biomechanics. ACS Nano, 2021, 15, 19175-19184.	7.3	4
42	Triple Contrast CT Method Enables Simultaneous Evaluation of Articular Cartilage Composition and Segmentation. Annals of Biomedical Engineering, 2020, 48, 556-567.	1.3	10
43	Aqueous Ringâ€Opening Polymerizationâ€Induced Selfâ€Assembly (ROPISA) of Nâ€Carboxyanhydrides. Angewandte Chemie - International Edition, 2020, 59, 622-626.	7.2	129
44	A Synthetic Bioinspired Carbohydrate Polymer with Mucoadhesive Properties. Angewandte Chemie - International Edition, 2020, 59, 704-710.	7.2	19
45	Aqueous Ringâ€Opening Polymerizationâ€Induced Selfâ€Assembly (ROPISA) of Nâ€Carboxyanhydrides. Angewandte Chemie, 2020, 132, 632-636.	1.6	26
46	Synchrotron MicroCT Reveals the Potential of the Dual Contrast Technique for Quantitative Assessment of Human Articular Cartilage Composition. Journal of Orthopaedic Research, 2020, 38, 563-573.	1.2	16
47	Titelbild: Aqueous Ringâ€Opening Polymerizationâ€Induced Selfâ€Assembly (ROPISA) of Nâ€Carboxyanhydrides (Angew. Chem. 2/2020). Angewandte Chemie, 2020, 132, 517-517.	1.6	0
48	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
49	A Synthetic Bioinspired Carbohydrate Polymer with Mucoadhesive Properties. Angewandte Chemie, 2020, 132, 714-720.	1.6	11
50	dGEMRIC and CECT Comparison of Cationic and Anionic Contrast Agents in Cadaveric Human Metacarpal Cartilage. Journal of Orthopaedic Research, 2020, 38, 719-725.	1.2	5
51	Humidityâ€Insensitive Tissue Oxygen Tension Sensing for Wearable Devices^{â€}. Photochemistry and Photobiology, 2020, 96, 373-379.	1.3	13
52	Surface Immobilized Nucleic Acidâ€“Transcription Factor Quantum Dots for Biosensing. Advanced Healthcare Materials, 2020, 9, e2000403.	3.9	10
53	Single-Step Replacement of an Unreactive Câ€“H Bond by a Câ€“S Bond Using Polysulfide as the Direct Sulfur Source in the Anaerobic Ergothioneine Biosynthesis. ACS Catalysis, 2020, 10, 8981-8994.	5.5	15
54	Electrode materialâ€“ionic liquid coupling for electrochemical energy storage. Nature Reviews Materials, 2020, 5, 787-808.	23.3	210

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55	Guidelines for Î²-Lactam Synthesis: Glycal Protecting Groups Dictate Stereoelectronics and [2+2] Cycloaddition Kinetics. Journal of Organic Chemistry, 2020, 85, 12044-12057.	1.7	8
56	A Markov chain model of particle deposition in the lung. Scientific Reports, 2020, 10, 13573.	1.6	12
57	Poly-Amido-Saccharides (PASs): Functional Synthetic Carbohydrate Polymers Inspired by Nature. Accounts of Chemical Research, 2020, 53, 2167-2179.	7.6	15
58	Hydrogel-Embedded Quantum Dotâ€"Transcription Factor Sensors for Quantitative Progesterone Detection. ACS Applied Materials & Interfaces, 2020, 12, 43513-43521.	4.0	27
59	Mega macromolecules as single molecule lubricants for hard and soft surfaces. Nature Communications, 2020, 11, 2139.	5.8	25
60	A progesterone biosensor derived from microbial screening. Nature Communications, 2020, 11, 1276.	5.8	53
61	Pancreatic Adenocarcinoma: Unconventional Approaches for an Unconventional Disease. Cancer Research, 2020, 80, 3179-3192.	0.4	15
62	Dual contrast in computed tomography allows earlier characterization of articular cartilage over single contrast. Journal of Orthopaedic Research, 2020, 38, 2230-2238.	1.2	11
63	Expansile Nanoparticles Encapsulate Factor Quinolinone Inhibitor 1 and Accumulate in Murine Liver upon Intravenous Administration. Biomacromolecules, 2020, 21, 1499-1506.	2.6	2
64	Paclitaxel-loaded expansile nanoparticles improve survival following cytoreductive surgery in pleural mesothelioma xenografts. Journal of Thoracic and Cardiovascular Surgery, 2020, 160, e159-e168.	0.4	10
65	Verticillin A Causes Apoptosis and Reduces Tumor Burden in High-Grade Serous Ovarian Cancer by Inducing DNA Damage. Molecular Cancer Therapeutics, 2020, 19, 89-100.	1.9	16
66	Cationic poly-amido-saccharides: stereochemically-defined, enantiopure polymers from anionic ring-opening polymerization of an amino-sugar monomer. Polymer Chemistry, 2020, 11, 1926-1936.	1.9	8
67	Modulating lysosomal pH: a molecular and nanoscale materials design perspective. Journal of Life Sciences (Westlake Village, Calif), 2020, 2, 25-37.	1.8	17
68	Abstract A32: The SUV39H1-H3K9me3 pathway represses cytotoxic T lymphocyte effector expression to confer colon carcinoma immune escape. , 2020, , .		0
69	Biodegradable PLGA Nanoparticles Restore Lysosomal Acidity and Protect Neural PC-12 Cells against Mitochondrial Toxicity. Industrial & Engineering Chemistry Research, 2019, 58, 13910-13917.	1.8	28
70	The cell adhesion molecule IGPR-1 is activated by and regulates responses of endothelial cells to shear stress. Journal of Biological Chemistry, 2019, 294, 13671-13680.	1.6	19
71	A versatile and accessible polymer coating for functionalizable zwitterionic quantum dots with high DNA grafting efficiency. Chemical Communications, 2019, 55, 11067-11070.	2.2	14
72	Contrast enhanced computed tomography for real-time quantification of glycosaminoglycans in cartilage tissue engineered constructs. Acta Biomaterialia, 2019, 100, 202-212.	4.1	7

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73	Degradable Nanoparticles Restore Lysosomal pH and Autophagic Flux in Lipotoxic Pancreatic Beta Cells. Advanced Healthcare Materials, 2019, 8, e1801511.	3.9	23
74	Contrastâ€Enhanced Computed Tomography Scoring System for Distinguishing Early Osteoarthritis Disease States: A Feasibility Study. Journal of Orthopaedic Research, 2019, 37, 2138-2148.	1.2	3
75	Intraarticular injection of relaxin-2 alleviates shoulder arthrofibrosis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 12183-12192.	3.3	34
76	Recapitulating bone development through engineered mesenchymal condensations and mechanical cues for tissue regeneration. Science Translational Medicine, 2019, 11, .	5.8	126
77	A Synthetic Bottle-Brush Polyelectrolyte Reduces Friction and Wear of Intact and Previously Worn Cartilage. ACS Biomaterials Science and Engineering, 2019, 5, 3060-3067.	2.6	13
78	Simultaneous Quantitation of Cationic and Non-ionic Contrast Agents in Articular Cartilage Using Synchrotron MicroCT Imaging. Scientific Reports, 2019, 9, 7118.	1.6	16
79	Evaluation of equine articular cartilage degeneration after mechanical impact injury using cationic contrast-enhanced computed tomography. Osteoarthritis and Cartilage, 2019, 27, 1219-1228.	0.6	11
80	Design, synthesis, and biomedical applications of synthetic sulphated polysaccharides. Chemical Society Reviews, 2019, 48, 2338-2365.	18.7	93
81	Imaging of proteoglycan and water contents in human articular cartilage with fullâ€body CT using dual contrast technique. Journal of Orthopaedic Research, 2019, 37, 1059-1070.	1.2	18
82	Decreased Recurrence in Sarcoma Patient-Derived Xenografts Using Paclitaxel-Eluting Polymer Films. Journal of the American College of Surgeons, 2019, 229, S260.	0.2	1
83	Protocol development for synchrotron contrast-enhanced CT of human hip cartilage. Medical Engineering and Physics, 2019, 73, 1-8.	0.8	1
84	Sustainable polycarbonate adhesives for dry and aqueous conditions with thermoresponsive properties. Nature Communications, 2019, 10, 5478.	5.8	58
85	Poly(Alkyl Glycidate Carbonate)s as Degradable Pressureâ€Sensitive Adhesives. Angewandte Chemie, 2019, 131, 1421-1425.	1.6	4
86	Nanoparticleâ€mediated lysosomal reacidification restores mitochondrial turnover and function in Î² cells under lipotoxicity. FASEB Journal, 2019, 33, 4154-4165.	0.2	29
87	Bioconjugated Oligonucleotides: Recent Developments and Therapeutic Applications. Bioconjugate Chemistry, 2019, 30, 366-383.	1.8	147
88	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
89	Assessment of healthy trapeziometacarpal cartilage properties using indentation testing and contrast-enhanced computed tomography. Clinical Biomechanics, 2019, 61, 181-189.	0.5	16
90	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

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91	Polymerâ€“drug conjugate therapeutics: advances, insights and prospects. Nature Reviews Drug Discovery, 2019, 18, 273-294.	21.5	579
92	Poly(Alkyl Glycidate Carbonate)s as Degradable Pressureâ€Sensitive Adhesives. Angewandte Chemie - International Edition, 2019, 58, 1407-1411.	7.2	34
93	Sensing Native Protein Solution Structures Using a Solid-state Nanopore: Unraveling the States of VEGF. Scientific Reports, 2018, 8, 1017.	1.6	40
94	Recent advances in articular cartilage evaluation using computed tomography and magnetic resonance imaging. Equine Veterinary Journal, 2018, 50, 564-579.	0.9	27
95	Tensionâ€Activated Delivery of Small Molecules and Proteins from Superhydrophobic Composites. Advanced Healthcare Materials, 2018, 7, e1701096.	3.9	8
96	Functional effects of an interpenetrating polymer network on articular cartilage mechanical properties. Osteoarthritis and Cartilage, 2018, 26, 414-421.	0.6	14
97	Quantitative Dual Contrast CT Technique for Evaluation of Articular Cartilage Properties. Annals of Biomedical Engineering, 2018, 46, 1038-1046.	1.3	20
98	Piperidinium ionic liquids as electrolyte solvents for sustained high temperature supercapacitor operation. Chemical Communications, 2018, 54, 5590-5593.	2.2	43
99	Reinforcement of polymeric nanoassemblies for ultra-high drug loadings, modulation of stiffness and release kinetics, and sustained therapeutic efficacy. Nanoscale, 2018, 10, 8360-8366.	2.8	10
100	Predoctoral and Postdoctoral Training Pipeline in Translational Biomaterials Research and Regenerative Medicine. ACS Biomaterials Science and Engineering, 2018, 4, 3919-3926.	2.6	4
101	Tubular TiO₂ Nanostructures: Toward Safer Microsupercapacitors. Advanced Materials Technologies, 2018, 3, 1700194.	3.0	9
102	Synthesis of Cationic Amphiphilic Surface-Block Polyester Dendrimers. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 383-398.	1.9	1
103	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
104	Single-molecule protein sensing in a nanopore: a tutorial. Chemical Society Reviews, 2018, 47, 8512-8524.	18.7	203
105	Rat Model of Adhesive Capsulitis of the Shoulder. Journal of Visualized Experiments, 2018, , .	0.2	2
106	A Solidâ€State Hard Microfluidicâ€“Nanopore Biosensor with Multilayer Fluidics and Onâ€Chip Bioassay/Purification Chamber. Advanced Functional Materials, 2018, 28, 1804182.	7.8	27
107	Friction-lowering capabilities and human subject preferences for a hydrophilic surface coating on latex substrates: implications for increasing condom usage. Royal Society Open Science, 2018, 5, 180291.	1.1	4
108	Local Cancer Recurrence: The Realities, Challenges, and Opportunities for New Therapies. Ca-A Cancer Journal for Clinicians, 2018, 68, 488-505.	157.7	211

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109	Single-Molecule Discrimination of Labeled DNAs and Polypeptides Using Photoluminescent-Free TiO₂ Nanopores. ACS Nano, 2018, 12, 11648-11656.	7.3	45
110	Nucleic acid nanomedicines in Phase II/III clinical trials: translation of nucleic acid therapies for reprogramming cells. Nanomedicine, 2018, 13, 2083-2098.	1.7	31
111	Active agents, biomaterials, and technologies to improve biolubrication and strengthen soft tissues. Biomaterials, 2018, 181, 210-226.	5.7	42
112	Fluorescent Dendritic Micro-Hydrogels: Synthesis, Analysis and Use in Single-Cell Detection. Molecules, 2018, 23, 936.	1.7	4
113	Contrastâ€enhanced computed tomography (CECT) attenuation is associated with stiffness of intact knee cartilage. Journal of Orthopaedic Research, 2018, 36, 2641-2647.	1.2	7
114	Mechanical confinement via a PEG/Collagen interpenetrating network inhibits behavior characteristic of malignant cells in the triple negative breast cancer cell line MDA.MB.231. Acta Biomaterialia, 2018, 77, 85-95.	4.1	26
115	Contrasting roles of H3K4me3 and H3K9me3 in regulation of apoptosis and gemcitabine resistance in human pancreatic cancer cells. BMC Cancer, 2018, 18, 149.	1.1	36
116	A synthetic polymeric biolubricant imparts chondroprotection in a rat meniscal tear model. Biomaterials, 2018, 182, 13-20.	5.7	22
117	Biologically Active Branched Polysaccharide Mimetics: Synthesis via Ring-Opening Polymerization of a Maltose-Based Î²-Lactam. ACS Macro Letters, 2018, 7, 772-777.	2.3	19
118	Abstract 4966: The SUV39H1-H3K9me3 axis mediates colon carcinoma cell intrinsic apoptosis and immune evasion. , 2018, , .		0
119	Contrast-enhanced CT imaging as a non-destructive tool for ex vivo examination of the biochemical content and structure of the human meniscus. Journal of Orthopaedic Research, 2017, 35, 1018-1028.	1.2	4
120	Highly Specific and Sensitive Fluorescent Nanoprobes for Image-Guided Resection of Sub-Millimeter Peritoneal Tumors. ACS Nano, 2017, 11, 1466-1477.	7.3	43
121	Cation Tuning of Supramolecular Gel Properties: A New Paradigm for Sustained Drug Delivery. Advanced Materials, 2017, 29, 1605227.	11.1	58
122	Modulation of the effective viscosity of polymer films by ultraviolet ozone treatment. Polymer, 2017, 116, 498-505.	1.8	9
123	Assessing Cartilage Biomechanical Properties: Techniques for Evaluating the Functional Performance of Cartilage in Health and Disease. Annual Review of Biomedical Engineering, 2017, 19, 27-55.	5.7	33
124	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
125	On-Demand Dissolution of Chemically Cross-Linked Hydrogels. Accounts of Chemical Research, 2017, 50, 151-160.	7.6	98
126	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

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127	Use of contrast media in computed tomography and magnetic resonance imaging in horses: Techniques, adverse events and opportunities. Equine Veterinary Journal, 2017, 49, 410-424.	0.9	36
128	Murine articular cartilage morphology and compositional quantification with high resolution cationic contrastâ€enhanced Î¼CT. Journal of Orthopaedic Research, 2017, 35, 2740-2748.	1.2	17
129	Synthesis and Preclinical Characterization of a Cationic Iodinated Imaging Contrast Agent (CA4+) and Its Use for Quantitative Computed Tomography of Ex Vivo Human Hip Cartilage. Journal of Medicinal Chemistry, 2017, 60, 5543-5555.	2.9	32
130	Stereotactic core needle breast biopsy marker migration: An analysis of factors contributing to immediate marker migration. European Radiology, 2017, 27, 4797-4803.	2.3	15
131	Reinforcement of articular cartilage with a tissue-interpenetrating polymer network reduces friction and modulates interstitial fluid load support. Osteoarthritis and Cartilage, 2017, 25, 1143-1149.	0.6	18
132	Structural Characterization of Vascular Endothelial Growth Factor by Solid-State Nanopores. Biophysical Journal, 2017, 112, 154a-155a.	0.2	0
133	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
134	A hydrogel sealant for the treatment of severe hepatic and aortic trauma with a dissolution feature for post-emergent care. Materials Horizons, 2017, 4, 222-227.	6.4	26
135	Synthesis of poly(1,2-glycerol carbonate)â€“paclitaxel conjugates and their utility as a single high-dose replacement for multi-dose treatment regimens in peritoneal cancer. Chemical Science, 2017, 8, 8443-8450.	3.7	23
136	Synthesis of an Environmentally Friendly Alkyl Carbonate Electrolyte Based on Glycerol for Lithiumâ€ion Supercapacitor Operation at 100 Â°C. Advanced Sustainable Systems, 2017, 1, 1700067.	2.7	7
137	Embedded Spheroids as Models of the Cancer Microenvironment. Advanced Biology, 2017, 1, 1700083.	3.0	61
138	Synthesis of Altrose Poly-amido-saccharides with Î²-N-(1â†’2)-<scp>d</scp>-amide Linkages: A Right-Handed Helical Conformation Engineered in at the Monomer Level. Journal of the American Chemical Society, 2017, 139, 14217-14223.	6.6	36
139	Breast Cancer Spheroids Reveal a Differential Cancer Stem Cell Response to Chemotherapeutic Treatment. Scientific Reports, 2017, 7, 10382.	1.6	112
140	Chemical synthesis of polysaccharides and polysaccharide mimetics. Progress in Polymer Science, 2017, 74, 78-116.	11.8	98
141	Cover Image, Volume 9, Issue 3. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2017, 9, e1474.	3.3	1
142	Surface tension sensor meshes for rapid alcohol quantification. RSC Advances, 2017, 7, 49795-49798.	1.7	2
143	Mechanoresponsive materials for drug delivery: Harnessing forces for controlled release. Advanced Drug Delivery Reviews, 2017, 108, 68-82.	6.6	84
144	Contrast-Enhanced Computed Tomography Enables Quantitative Evaluation of Tissue Properties at Intrajoint Regions in Cadaveric Knee Cartilage. Cartilage, 2017, 8, 391-399.	1.4	20

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145	Micro-Scale Distribution of CA4+ in Ex vivo Human Articular Cartilage Detected with Contrast-Enhanced Micro-Computed Tomography Imaging. Frontiers in Physics, 2017, 5, .	1.0	12
146	Tunable resistive pulse sensing and nanoindentation of pH-responsive expansile nanoparticles. International Journal of Nanotechnology, 2017, 14, 446.	0.1	0
147	Tunable resistive pulse sensing and nanoindentation of pH-responsive expansile nanoparticles. International Journal of Nanotechnology, 2017, 14, 1.	0.1	1
148	A Tissueâ€Penetrating Double Network Restores the Mechanical Properties of Degenerated Articular Cartilage. Angewandte Chemie, 2016, 128, 4298-4302.	1.6	8
149	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
150	InnenrÃ¼cktitelbild: Stretchâ€Induced Drug Delivery from Superhydrophobic Polymer Composites: Use of Crack Propagation Failure Modes for Controlling Release Rates (Angew. Chem. 8/2016). Angewandte Chemie, 2016, 128, 2997-2997.	1.6	0
151	Macromolecular photoinitiators enhance the hydrophilicity and lubricity of natural rubber. Journal of Applied Polymer Science, 2016, 133, .	1.3	14
152	Lysosome acidification by photoactivated nanoparticles restores autophagy under lipotoxicity. Journal of Cell Biology, 2016, 214, 25-34.	2.3	59
153	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
154	A Tissueâ€Penetrating Double Network Restores the Mechanical Properties of Degenerated Articular Cartilage. Angewandte Chemie - International Edition, 2016, 55, 4226-4230.	7.2	43
155	Two-Step Delivery: Exploiting the Partition Coefficient Concept to Increase Intratumoral Paclitaxel Concentrations In vivo Using Responsive Nanoparticles. Scientific Reports, 2016, 6, 18720.	1.6	20
156	Self-assembled nanofiber hydrogels for mechanoresponsive therapeutic anti-TNFÎ± antibody delivery. Chemical Communications, 2016, 52, 5860-5863.	2.2	34
157	Evaluation of expansile nanoparticle tumor localization and efficacy in a cancer stem cell-derived model of pancreatic peritoneal carcinomatosis. Nanomedicine, 2016, 11, 1001-1015.	1.7	20
158	Combined Molecular Dynamics Simulations and Experimental Studies of the Structure and Dynamics of Poly-Amido-Saccharides. Journal of the American Chemical Society, 2016, 138, 6532-6540.	6.6	27
159	From Diagnosis to Treatment. Thoracic Surgery Clinics, 2016, 26, 215-228.	0.4	9
160	Rate limiting activity of charge transfer during lithiation from ionic liquids. Journal of Power Sources, 2016, 330, 84-91.	4.0	20
161	High temperature electrical energy storage: advances, challenges, and frontiers. Chemical Society Reviews, 2016, 45, 5848-5887.	18.7	268
162	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

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