Cheng Chen

List of Publications by Year
in descending order

42	1,172	19	34
papers	citations	h-index	g-index

394286

377752

46	46	46	1741
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Current and Emerging Technology for Continuous Glucose Monitoring. Sensors, 2017, 17, 182.	2.1	193
2	Moist-Retaining, Self-Recoverable, Bioadhesive, and Transparent in Situ Forming Hydrogels To Accelerate Wound Healing. ACS Applied Materials & Interfaces, 2020, 12, 2023-2038.	4.0	110
3	2D Photonic Crystal Hydrogel Sensor for Tear Glucose Monitoring. ACS Omega, 2018, 3, 3211-3217.	1.6	87
4	E-C coupling structural protein junctophilin-2 encodes a stress-adaptive transcription regulator. Science, 2018, 362, .	6.0	78
5	A Gelated Colloidal Crystal Attached Lens for Noninvasive Continuous Monitoring of Tear Glucose. Polymers, 2017, 9, 125.	2.0	65
6	Applications of Hydrogels with Special Physical Properties in Biomedicine. Polymers, 2019, 11, 1420.	2.0	63
7	A robust and efficient curve skeletonization algorithm for tree-like objects using minimum cost paths. Pattern Recognition Letters, 2016, 76, 32-40.	2.6	54
8	Hydrogel-Based Colloidal Photonic Crystal Devices for Glucose Sensing. Polymers, 2020, 12, 625.	2.0	43
9	A Novel Biomimetic Hydrogen Peroxide Biosensor Based on Pt Flowers–decorated Fe_3O_4/Graphene Nanocomposite. Electroanalysis, 2017, 29, 1518-1523.	1.5	42
10	Quantitative imaging of peripheral trabecular bone microarchitecture using MDCT. Medical Physics, 2018, 45, 236-249.	1.6	38
11	Ultrathin colloidal crystal layer as transparent photonic films. Micro and Nano Letters, 2019, 14, 1-4.	0.6	38
12	7 Tesla MRI of bone microarchitecture discriminates between women without and with fragility fractures who do not differ by bone mineral density. Journal of Bone and Mineral Metabolism, 2015, 33, 285-293.	1.3	34
13	An enhanced Nonenzymatic Electrochemical Glucose Sensor Based on Copper–Palladium Nanoparticles Modified Glassy Carbon Electrodes. Electroanalysis, 2018, 30, 1811-1819.	1.5	29
14	Template synthesis of NiO ultrathin nanosheets using polystyrene nanospheres and their electrochromic properties. RSC Advances, 2015, 5, 38533-38537.	1.7	27
15	Knockdown of NEAT1 exerts suppressive effects on diabetic retinopathy progression via inactivating TGF-β1 and VEGF signaling pathways. Journal of Cellular Physiology, 2020, 235, 9361-9369.	2.0	27
16	Synergistic Effect of Irregular Shaped Particles and Graphene on the Thermal Conductivity of Epoxy Composites. Polymer Composites, 2019, 40, E1294.	2.3	23
17	Characterization of trabecular bone plate–rod microarchitecture using multirow detector CT and the tensor scale: Algorithms, validation, and applications to pilot human studies. Medical Physics, 2015, 42, 5410-5425.	1.6	22
18	3-T MR Imaging of Proximal Femur Microarchitecture in Subjects with and without Fragility Fracture and Nonosteoporotic Proximal Femur Bone Mineral Density. Radiology, 2018, 287, 608-619.	3.6	21

#	Article	IF	Citations
19	7T MRI detects deterioration in subchondral bone microarchitecture in subjects with mild knee osteoarthritis as compared with healthy controls. Journal of Magnetic Resonance Imaging, 2015, 41, 1311-1317.	1.9	20
20	Automated cortical bone segmentation for multirow‑detector CT imaging with validation and application to human studies. Medical Physics, 2015, 42, 4553-4565.	1.6	19
21	Flexible Hydrogen Peroxide Sensors Based on Platinum Modified Free-Standing Reduced Graphene Oxide Paper. Applied Sciences (Switzerland), 2018, 8, 848.	1.3	19
22	Fuzzy Object Skeletonization: Theory, Algorithms, and Applications. IEEE Transactions on Visualization and Computer Graphics, 2018, 24, 2298-2314.	2.9	17
23	Comprehensive excellent performance for silicone-based thermal interface materials through the synergistic effect between graphene and spherical alumina. Journal of Materials Science: Materials in Electronics, 2020, 31, 4642-4649.	1.1	17
24	Self-Healable Poly(vinyl alcohol) Photonic Crystal Hydrogel. ACS Applied Polymer Materials, 2020, 2, 2086-2092.	2.0	14
25	Preparation of Co‑N carbon nanosheet oxygen electrode catalyst by controlled crystallization of cobalt salt precursors for all-solid-state Al‑air battery. RSC Advances, 2018, 8, 22193-22198.	1.7	11
26	Trabecular bone characterization on the continuum of plates and rods using *in vivo* MR imaging and volumetric topological analysis. Physics in Medicine and Biology, 2016, 61, N478-N496.	1.6	10
27	Employing machine learning techniques to assess requirement change volatility. Research in Engineering Design - Theory, Applications, and Concurrent Engineering, 2021, 32, 245-269.	1.2	9
28	Rapid Coating of Ultraviolet Shielding Colloidal Crystals. Crystals, 2020, 10, 502.	1.0	8
29	Filtering Non-Significant Quench Points Using Collision Impact in Grassfire Propagation. Lecture Notes in Computer Science, 2015, , 432-443.	1.0	6
30	MicroRNA-139-5p Alleviates High Glucose-Triggered Human Retinal Pigment Epithelial Cell Injury by Targeting LIM-Only Factor 4. Mediators of Inflammation, 2021, 2021, 1-10.	1.4	6
31	7T MRI of distal radius trabecular bone microarchitecture: How trabecular bone quality varies depending on distance from end‑of‑bone. Journal of Magnetic Resonance Imaging, 2017, 45, 872-878.	1.9	5
32	Polymerized Crystalline Colloidal Array Photonic Crystal with Enhanced Mechanical Property. Chemistry Letters, 2015, 44, 1566-1568.	0.7	3
33	Assessment of trabecular bone strength at in vivo CT imaging with space-variant hysteresis and finite element modelling. , 2016, , .		3
34	A staircase transform coding scheme for screen content video coding. , 2016, , .		2
35	Curve skeletonization using minimum-cost path. , 2017, , 151-180.		2
36	Segmentation of Trabecular Bone for In Vivo CT Imaging Using a Novel Approach of Computing Spatial Variation in Bone and Marrow Intensities. Lecture Notes in Computer Science, 2017, , 3-15.	1.0	2

#	Article	IF	Citations
37	Robust segmentation of trabecular bone for in vivo CT imaging using anisotropic diffusion and multi-scale morphological reconstruction. , 2017, , .		1
38	A Comparative Study of Adhesion Evaluation Methods on Ophthalmic AR Coating Lens. Coatings, 2020, 10, 979.	1.2	1
39	MRI-based active shape model of the human proximal femur using fiducial and secondary landmarks and its validation. , 2018, , .		1
40	Fuzzy Skeletonization Improves the Performance of Characterizing Trabecular Bone Micro-architecture. Lecture Notes in Computer Science, 2015, , 14-24.	1.0	0
41	Hydrogel-based photonic crystal materials for sensing application. , 2015, , .		0
42	Direct biomechanical modeling of trabecular bone using a nonlinear manifold-based volumetric representation. Proceedings of SPIE, 2017, , .	0.8	0