

# Cheng Chen

## List of Publications by Year in descending order

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42  
papers

1,172  
citations

394286

19  
h-index

377752

34  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1741  
citing authors

#	ARTICLE	IF	CITATIONS
1	Employing machine learning techniques to assess requirement change volatility. <i>Research in Engineering Design - Theory, Applications, and Concurrent Engineering</i> , 2021, 32, 245-269.	1.2	9
2	MicroRNA-139-5p Alleviates High Glucose-Triggered Human Retinal Pigment Epithelial Cell Injury by Targeting LIM-Only Factor 4. <i>Mediators of Inflammation</i> , 2021, 2021, 1-10.	1.4	6
3	Moist-Retaining, Self-Recoverable, Bioadhesive, and Transparent in Situ Forming Hydrogels To Accelerate Wound Healing. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 2023-2038.	4.0	110
4	A Comparative Study of Adhesion Evaluation Methods on Ophthalmic AR Coating Lens. <i>Coatings</i> , 2020, 10, 979.	1.2	1
5	Hydrogel-Based Colloidal Photonic Crystal Devices for Glucose Sensing. <i>Polymers</i> , 2020, 12, 625.	2.0	43
6	Rapid Coating of Ultraviolet Shielding Colloidal Crystals. <i>Crystals</i> , 2020, 10, 502.	1.0	8
7	Comprehensive excellent performance for silicone-based thermal interface materials through the synergistic effect between graphene and spherical alumina. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 4642-4649.	1.1	17
8	Knockdown of NEAT1 exerts suppressive effects on diabetic retinopathy progression via inactivating TGF $\alpha$ 21 and VEGF signaling pathways. <i>Journal of Cellular Physiology</i> , 2020, 235, 9361-9369.	2.0	27
9	Self-Healable Poly(vinyl alcohol) Photonic Crystal Hydrogel. <i>ACS Applied Polymer Materials</i> , 2020, 2, 2086-2092.	2.0	14
10	Applications of Hydrogels with Special Physical Properties in Biomedicine. <i>Polymers</i> , 2019, 11, 1420.	2.0	63
11	Synergistic Effect of Irregular Shaped Particles and Graphene on the Thermal Conductivity of Epoxy Composites. <i>Polymer Composites</i> , 2019, 40, E1294.	2.3	23
12	Ultrathin colloidal crystal layer as transparent photonic films. <i>Micro and Nano Letters</i> , 2019, 14, 1-4.	0.6	38
13	3-T MR Imaging of Proximal Femur Microarchitecture in Subjects with and without Fragility Fracture and Nonosteoporotic Proximal Femur Bone Mineral Density. <i>Radiology</i> , 2018, 287, 608-619.	3.6	21
14	An enhanced Nonenzymatic Electrochemical Glucose Sensor Based on Copper $\alpha$ Palladium Nanoparticles Modified Glassy Carbon Electrodes. <i>Electroanalysis</i> , 2018, 30, 1811-1819.	1.5	29
15	2D Photonic Crystal Hydrogel Sensor for Tear Glucose Monitoring. <i>ACS Omega</i> , 2018, 3, 3211-3217.	1.6	87
16	Quantitative imaging of peripheral trabecular bone microarchitecture using $\langle$ MDCT $\rangle$ . <i>Medical Physics</i> , 2018, 45, 236-249.	1.6	38
17	Fuzzy Object Skeletonization: Theory, Algorithms, and Applications. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2018, 24, 2298-2314.	2.9	17
18	E-C coupling structural protein junctophilin-2 encodes a stress-adaptive transcription regulator. <i>Science</i> , 2018, 362, .	6.0	78

#	ARTICLE	IF	CITATIONS
19	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
20	Flexible Hydrogen Peroxide Sensors Based on Platinum Modified Free-Standing Reduced Graphene Oxide Paper. Applied Sciences (Switzerland), 2018, 8, 848.	1.3	19
21	MRI-based active shape model of the human proximal femur using fiducial and secondary landmarks and its validation. , 2018, , .		1
22	Robust segmentation of trabecular bone for in vivo CT imaging using anisotropic diffusion and multi-scale morphological reconstruction. , 2017, , .		1
23	A Novel Biomimetic Hydrogen Peroxide Biosensor Based on Pt Flowers-decorated Fe <sub>3</sub> O <sub>4</sub> /Graphene Nanocomposite. Electroanalysis, 2017, 29, 1518-1523.	1.5	42
24	7T MRI of distal radius trabecular bone microarchitecture: How trabecular bone quality varies depending on distance from endof bone. Journal of Magnetic Resonance Imaging, 2017, 45, 872-878.	1.9	5
25	A Gelated Colloidal Crystal Attached Lens for Noninvasive Continuous Monitoring of Tear Glucose. Polymers, 2017, 9, 125.	2.0	65
26	Current and Emerging Technology for Continuous Glucose Monitoring. Sensors, 2017, 17, 182.	2.1	193
27	Curve skeletonization using minimum-cost path. , 2017, , 151-180.		2
28	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
29	Direct biomechanical modeling of trabecular bone using a nonlinear manifold-based volumetric representation. Proceedings of SPIE, 2017, , .	0.8	0
30	A staircase transform coding scheme for screen content video coding. , 2016, , .		2
31	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
32	Assessment of trabecular bone strength at in vivo CT imaging with space-variant hysteresis and finite element modelling. , 2016, , .		3
33	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
34	Polymerized Crystalline Colloidal Array Photonic Crystal with Enhanced Mechanical Property. Chemistry Letters, 2015, 44, 1566-1568.	0.7	3
35	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
36	Fuzzy Skeletonization Improves the Performance of Characterizing Trabecular Bone Micro-architecture. Lecture Notes in Computer Science, 2015, , 14-24.	1.0	0

#	ARTICLE	IF	CITATIONS
37	Hydrogel-based photonic crystal materials for sensing application. , 2015, , .		0
38	Automated cortical bone segmentation for multirowâ€ detector CT imaging with validation and application to human studies. Medical Physics, 2015, 42, 4553-4565.	1.6	19
39	Template synthesis of NiO ultrathin nanosheets using polystyrene nanospheres and their electrochromic properties. RSC Advances, 2015, 5, 38533-38537.	1.7	27
40	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
41	7Â 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
42	Filtering Non-Significant Quench Points Using Collision Impact in Grassfire Propagation. Lecture Notes in Computer Science, 2015, , 432-443.	1.0	6