

Tolou Shokuhfar

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,152
citations

361413

20
h-index

414414

32
g-index

59
all docs

59
docs citations

59
times ranked

1817
citing authors

#	ARTICLE	IF	CITATIONS
1	Elevated Temperature 3D Printing of Hybrid Solid-State Electrolyte for Li-Ion Batteries. <i>Advanced Materials</i> , 2018, 30, e1800615.	21.0	159
2	Sustained micellar delivery via inducible transitions in nanostructure morphology. <i>Nature Communications</i> , 2018, 9, 624.	12.8	76
3	Fabrication of Anti-Aging TiO ₂ Nanotubes on Biomedical Ti Alloys. <i>PLoS ONE</i> , 2014, 9, e96213.	2.5	62
4	Revealing nanoscale mineralization pathways of hydroxyapatite using in situ liquid cell transmission electron microscopy. <i>Science Advances</i> , 2020, 6, .	10.3	61
5	The role of electron irradiation history in liquid cell transmission electron microscopy. <i>Science Advances</i> , 2018, 4, eaaq1202.	10.3	47
6	Novel PMMA bone cement nanocomposites containing magnesium phosphate nanosheets and hydroxyapatite nanofibers. <i>Materials Science and Engineering C</i> , 2020, 109, 110497.	7.3	47
7	Thermally oxidized titania nanotubes enhance the corrosion resistance of Ti6Al4V. <i>Materials Science and Engineering C</i> , 2016, 59, 677-689.	7.3	45
8	Ultrafast Synthesis of High Entropy Oxide Nanoparticles by Flame Spray Pyrolysis. <i>Langmuir</i> , 2021, 37, 9059-9068.	3.5	45
9	Precise In Situ Modulation of Local Liquid Chemistry via Electron Irradiation in Nanoreactors Based on Graphene Liquid Cells. <i>Advanced Materials</i> , 2016, 28, 7716-7722.	21.0	44
10	Classification of Hydrogels Based on Their Source: A Review and Application in Stem Cell Regulation. <i>Jom</i> , 2017, 69, 1340-1347.	1.9	40
11	Advances in Graphene-Based Liquid Cell Electron Microscopy: Working Principles, Opportunities, and Challenges. <i>Small Methods</i> , 2019, 3, 1900026.	8.6	38
12	Biophysical evaluation of cells on nanotubular surfaces: the effects of atomic ordering and chemistry. <i>International Journal of Nanomedicine</i> , 2014, 9, 3737.	6.7	34
13	Improved tribocorrosion performance of bio-functionalized TiO ₂ nanotubes under two-cycle sliding actions in artificial saliva. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 80, 143-154.	3.1	33
14	<p></p>TEM Studies on Antibacterial Mechanisms of Black Phosphorous Nanosheets</p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 3071-3085.	6.7	28
15	<i>In Situ</i> Study of Molecular Structure of Water and Ice Entrapped in Graphene Nanovessels. <i>ACS Nano</i> , 2019, 13, 4677-4685.	14.6	27
16	Transparent TiO ₂ nanotubes on zirconia for biomedical applications. <i>RSC Advances</i> , 2017, 7, 30397-30410.	3.6	24
17	Nanocomposite materials in orthopedic applications. <i>Frontiers of Chemical Science and Engineering</i> , 2019, 13, 1-13.	4.4	23
18	Imaging of soft materials using in situ liquid-cell transmission electron microscopy. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 103001.	1.8	23

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19	In Situ Transmission Electron Microscopy Explores a New Nanoscale Pathway for Direct Gypsum Formation in Aqueous Solution. ACS Applied Nano Materials, 2018, 1, 5430-5440.	5.0	22
20	Hydroxyapatite Fibers: A Review of Synthesis Methods. Jom, 2017, 69, 1354-1360.	1.9	21
21	Protein structural biology using cell-free platform from wheat germ. Advanced Structural and Chemical Imaging, 2018, 4, 13.	4.0	21
22	In-situ porcine corneal matrix hydrogel as ocular surface bandage. Ocular Surface, 2021, 21, 27-36.	4.4	20
23	In Situ Liquid-Cell TEM Observation of Multiphase Classical and Nonclassical Nucleation of Calcium Oxalate. Advanced Functional Materials, 2021, 31, 2007736.	14.9	19
24	Facile electrochemical synthesis of antimicrobial TiO ₂ nanotube arrays. International Journal of Nanomedicine, 2014, 9, 5177.	6.7	18
25	Collagen biomineralization: pathways, mechanisms, and thermodynamics. Emergent Materials, 2021, 4, 1205-1224.	5.7	18
26	Facile hydrothermal synthesis of antibacterial multi-layered hydroxyapatite nanostructures with superior flexibility. CrystEngComm, 2018, 20, 1304-1312.	2.6	15
27	A Review of the Cell to Graphene-Based Nanomaterial Interface. Jom, 2018, 70, 566-574.	1.9	15
28	Considerations for imaging thick, low contrast, and beam sensitive samples with liquid cell transmission electron microscopy. Micron, 2019, 117, 8-15.	2.2	15
29	In situ graphene liquid cell-transmission electron microscopy study of insulin secretion in pancreatic islet cells. International Journal of Nanomedicine, 2019, Volume 14, 371-382.	6.7	13
30	<p>Correlative ex situ and Liquid-Cell TEM Observation of Bacterial Cell Membrane Damage Induced by Rough Surface Topology</p>. International Journal of Nanomedicine, 2020, Volume 15, 1929-1938.	6.7	13
31	Fabrication, Rheological, and Compositional Characterization of Thermo-responsive Hydrogel from Cornea. Tissue Engineering - Part C: Methods, 2021, 27, 307-321.	2.1	12
32	In Situ Visualization of Ferritin Biomineralization via Graphene Liquid Cell-Transmission Electron Microscopy. ACS Biomaterials Science and Engineering, 2020, 6, 3208-3216.	5.2	11
33	Targeted sonodynamic destruction of glioblastoma cells using antibody-titanium dioxide nanoparticle conjugates. Nanomedicine, 2021, 16, 523-534.	3.3	11
34	Interface Damage in Titanium Dental Implant Due to Tribocorrosion: The Role of Mastication Frequencies. Journal of Bio- and Tribo-Corrosion, 2019, 5, 1.	2.6	9
35	Assessment of Pressure and Density of Confined Water in Graphene Liquid Cells. Advanced Materials Interfaces, 2020, 7, 1901727.	3.7	8
36	<i>In situ</i> visualization of the superior nanomechanical flexibility of individual hydroxyapatite nanobelts. CrystEngComm, 2018, 20, 1031-1036.	2.6	7

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37	Optimization of the Mechanical Properties and the Cytocompatibility for the PMMA Nanocomposites Reinforced with the Hydroxyapatite Nanofibers and the Magnesium Phosphate Nanosheets. <i>Materials</i> , 2021, 14, 5893.	2.9	6
38	TRIP-1 in the extracellular matrix promotes nucleation of calcium phosphate polymorphs. <i>Connective Tissue Research</i> , 2018, 59, 13-19.	2.3	5
39	In vitro Evaluation of Tribocorrosion Induced Failure Mechanisms at the Cell-Metal Interface for the Hip Implant Application. <i>Advanced Engineering Materials</i> , 2017, 19, 1600797.	3.5	4
40	Electrochemical anodisation of Ti-15Zr implant: effect of different voltages and times. <i>Surface Innovations</i> , 2017, 5, 82-89.	2.3	3
41	A novel antimicrobial electrochemical glucose biosensor based on silver-Prussian blue-modified TiO ₂ nanotube arrays. <i>Medical Devices & Sensors</i> , 2020, 3, e10061.	2.7	3
42	Elucidation of Structure and Chemistry of Iron Core in Human Heart Ferritin via Graphene Liquid Cell. <i>Microscopy and Microanalysis</i> , 2016, 22, 800-801.	0.4	1
43	Electron Microscopy and Spectroscopy of Citrate Induced Calcium Oxalate Crystal Structure and Hydration State Changes, and Implications for Kidney Stones. <i>Microscopy and Microanalysis</i> , 2017, 23, 1208-1209.	0.4	1
44	Revealing the Iron Oxides Mineral Core in Ferritin due to the Variations in the H and L Subunits. <i>Microscopy and Microanalysis</i> , 2017, 23, 1184-1185.	0.4	1
45	In situ Encapsulation of E. coli in GLC and Prediction of Beam Induced Death. <i>Microscopy and Microanalysis</i> , 2018, 24, 312-313.	0.4	1
46	Light on the Biomineralization of Ferritin. <i>Microscopy and Microanalysis</i> , 2018, 24, 1324-1325.	0.4	1
47	In situ Liquid Cell Transmission Electron Microscopy Study of Hydroxyapatite Mineralization Process. <i>Microscopy and Microanalysis</i> , 2019, 25, 1502-1502.	0.4	1
48	Synthesis and Characterization of Paramagnetic Iron Nanoparticles with Minimal Gold Coating for Optimal Drug Delivery. <i>Microscopy and Microanalysis</i> , 2016, 22, 1096-1097.	0.4	0
49	Transmission Electron Microscopy Studies of Calcium Phosphate Biomineralization. <i>Microscopy and Microanalysis</i> , 2016, 22, 798-799.	0.4	0
50	Spatially Resolved Electron Energy Loss Spectroscopy Studies in Graphene Liquid Cell for the Investigation of the Biomineralization Processes in Human Body. <i>Microscopy and Microanalysis</i> , 2016, 22, 806-807.	0.4	0
51	Investigation of the Magnetosome Biomineralization in Magnetotactic Bacteria Using GLC-TEM. <i>Microscopy and Microanalysis</i> , 2018, 24, 1330-1331.	0.4	0
52	Unveiling the Mechanism of Liposome Formation Using the Graphene Liquid Cells. <i>Microscopy and Microanalysis</i> , 2018, 24, 1784-1785.	0.4	0
53	In Situ Investigation of Calcium Oxalate Mineralization. <i>Microscopy and Microanalysis</i> , 2018, 24, 1320-1321.	0.4	0
54	Investigation of In Situ Radiation Effects in Liquid Cell Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 1980-1981.	0.4	0

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55	Real-Time Observation of Ferritin Biomineralization Using Graphene Liquid Cells Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2019, 25, 1122-1123.	0.4	0