

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	In Situ Liquid-Cell TEM Observation of Multiphase Classical and Nonclassical Nucleation of Calcium Oxalate. <i>Advanced Functional Materials</i> , 2021, 31, 2007736.	14.9	19
2	Targeted sonodynamic destruction of glioblastoma cells using antibody-titanium dioxide nanoparticle conjugates. <i>Nanomedicine</i> , 2021, 16, 523-534.	3.3	11
3	Fabrication, Rheological, and Compositional Characterization of Thermo-responsive Hydrogel from Cornea. <i>Tissue Engineering - Part C: Methods</i> , 2021, 27, 307-321.	2.1	12
4	Collagen biomineralization: pathways, mechanisms, and thermodynamics. <i>Emergent Materials</i> , 2021, 4, 1205-1224.	5.7	18
5	Ultrafast Synthesis of High Entropy Oxide Nanoparticles by Flame Spray Pyrolysis. <i>Langmuir</i> , 2021, 37, 9059-9068.	3.5	45
6	In-situ porcine corneal matrix hydrogel as ocular surface bandage. <i>Ocular Surface</i> , 2021, 21, 27-36.	4.4	20
7	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
8	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
9	Revealing nanoscale mineralization pathways of hydroxyapatite using in situ liquid cell transmission electron microscopy. <i>Science Advances</i> , 2020, 6, .	10.3	61
10	<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
11	Assessment of Pressure and Density of Confined Water in Graphene Liquid Cells. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901727.	3.7	8
12	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
13	In Situ Visualization of Ferritin Biomineralization via Graphene Liquid Cell-Transmission Electron Microscopy. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 3208-3216.	5.2	11
14	<p>Correlative ex situ and Liquid-Cell TEM Observation of Bacterial Cell Membrane Damage Induced by Rough Surface Topology</p>. <i>International Journal of Nanomedicine</i> , 2020, Volume 15, 1929-1938.	6.7	13
15	Real-Time Observation of Ferritin Biomineralization Using Graphene Liquid Cells Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2019, 25, 1122-1123.	0.4	0
16	Interface Damage in Titanium Dental Implant Due to Tribocorrosion: The Role of Mastication Frequencies. <i>Journal of Bio- and Tribo-Corrosion</i> , 2019, 5, 1.	2.6	9
17	In situ Liquid Cell Transmission Electron Microscopy Study of Hydroxyapatite Mineralization Process. <i>Microscopy and Microanalysis</i> , 2019, 25, 1502-1502.	0.4	1
18	Nanocomposite materials in orthopedic applications. <i>Frontiers of Chemical Science and Engineering</i> , 2019, 13, 1-13.	4.4	23

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19	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
20	<i>In Situ</i> Study of Molecular Structure of Water and Ice Entrapped in Graphene Nanovessels. ACS Nano, 2019, 13, 4677-4685.	14.6	27
21	Advances in Graphene-Based Liquid Cell Electron Microscopy: Working Principles, Opportunities, and Challenges. Small Methods, 2019, 3, 1900026.	8.6	38
22	Considerations for imaging thick, low contrast, and beam sensitive samples with liquid cell transmission electron microscopy. Micron, 2019, 117, 8-15.	2.2	15
23	Imaging of soft materials using in situ liquid-cell transmission electron microscopy. Journal of Physics Condensed Matter, 2019, 31, 103001.	1.8	23
24	Improved tribocorrosion performance of bio-functionalized TiO ₂ nanotubes under two-cycle sliding actions in artificial saliva. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 80, 143-154.	3.1	33
25	Sustained micellar delivery via inducible transitions in nanostructure morphology. Nature Communications, 2018, 9, 624.	12.8	76
26	<i>In situ</i> visualization of the superior nanomechanical flexibility of individual hydroxyapatite nanobelts. CrystEngComm, 2018, 20, 1031-1036.	2.6	7
27	Facile hydrothermal synthesis of antibacterial multi-layered hydroxyapatite nanostructures with superior flexibility. CrystEngComm, 2018, 20, 1304-1312.	2.6	15
28	A Review of the Cell to Graphene-Based Nanomaterial Interface. Jom, 2018, 70, 566-574.	1.9	15
29	The role of electron irradiation history in liquid cell transmission electron microscopy. Science Advances, 2018, 4, eaq1202.	10.3	47
30	Investigation of the Magnetosome Biomineralization in Magnetotactic Bacteria Using GLC-TEM. Microscopy and Microanalysis, 2018, 24, 1330-1331.	0.4	0
31	Unveiling the Mechanism of Liposome Formation Using the Graphene Liquid Cells. Microscopy and Microanalysis, 2018, 24, 1784-1785.	0.4	0
32	Protein structural biology using cell-free platform from wheat germ. Advanced Structural and Chemical Imaging, 2018, 4, 13.	4.0	21
33	In situ Encapsulation of E. coli in GLC and Prediction of Beam Induced Death. Microscopy and Microanalysis, 2018, 24, 312-313.	0.4	1
34	In Situ Investigation of Calcium Oxalate Mineralization. Microscopy and Microanalysis, 2018, 24, 1320-1321.	0.4	0
35	Light on the Biomineralization of Ferritin. Microscopy and Microanalysis, 2018, 24, 1324-1325.	0.4	1
36	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

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37	TRIP-1 in the extracellular matrix promotes nucleation of calcium phosphate polymorphs. <i>Connective Tissue Research</i> , 2018, 59, 13-19.	2.3	5
38	Elevated-temperature 3D Printing of Hybrid Solid-State Electrolyte for Li-ion Batteries. <i>Advanced Materials</i> , 2018, 30, e1800615.	21.0	159
39	Investigation of In Situ Radiation Effects in Liquid Cell Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 1980-1981.	0.4	0
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	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
42	Hydroxyapatite Fibers: A Review of Synthesis Methods. <i>Jom</i> , 2017, 69, 1354-1360.	1.9	21
43	Transparent TiO ₂ nanotubes on zirconia for biomedical applications. <i>RSC Advances</i> , 2017, 7, 30397-30410.	3.6	24
44	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
45	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
46	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
47	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
48	Transmission Electron Microscopy Studies of Calcium Phosphate Biomineralization. <i>Microscopy and Microanalysis</i> , 2016, 22, 798-799.	0.4	0
49	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
50	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
51	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
52	Thermally oxidized titania nanotubes enhance the corrosion resistance of Ti6Al4V. <i>Materials Science and Engineering C</i> , 2016, 59, 677-689.	7.3	45
53	Facile electrochemical synthesis of antimicrobial TiO ₂ nanotube arrays. <i>International Journal of Nanomedicine</i> , 2014, 9, 5177.	6.7	18
54	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

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55	Fabrication of Anti-Aging TiO ₂ Nanotubes on Biomedical Ti Alloys. PLoS ONE, 2014, 9, e96213.	2.5	62