

Shuquan Chang

List of Publications by Year in descending order

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69
papers

1,429
citations

331259

21
h-index

360668

35
g-index

70
all docs

70
docs citations

70
times ranked

2109
citing authors

#	ARTICLE	IF	CITATIONS
1	Ferroptosis, a new form of cell death defined after radiation exposure. International Journal of Radiation Biology, 2022, 98, 1201-1209.	1.0	10
2	Degradation of polyimide films modified by carbon nanotubes under electron beam irradiation and tensile stress. Journal of Radioanalytical and Nuclear Chemistry, 2022, 331, 1741-1750.	0.7	2
3	Hematopoietic protection and mechanisms of ferrostatin-1 on hematopoietic acute radiation syndrome of mice. International Journal of Radiation Biology, 2021, 97, 464-473.	1.0	16
4	Response of HPRT Gene Fragment Functionalized Gold Nanoparticles to Gamma Ray Irradiation. Analytical Sciences, 2021, 37, 309-314.	0.8	0
5	Recent Advancement of Emerging Nano Copper-Based Printable Flexible Hybrid Electronics. ACS Nano, 2021, 15, 6211-6232.	7.3	59
6	Smart Hydrogel Bilayers Prepared by Irradiation. Polymers, 2021, 13, 1753.	2.0	3
7	Nanometer-Sized Boron Loaded Liposomes Containing Fe ₃ O ₄ Magnetic Nanoparticles and Tributyl Borate and Anti-Albumin from Bovine Serum Antibody for Thermal Neutron Detection. Materials, 2021, 14, 3040.	1.3	1
8	Two-Dimensional Conductive 2D Frameworks with Multiple Sensory Capabilities. ACS Applied Materials & Interfaces, 2021, 13, 28703-28709.	4.0	5
9	Low-Diffusion Fricke Gel Dosimeters with Core-Shell Structure Based on Spatial Confinement. Materials, 2021, 14, 3932.	1.3	3
10	Flexible Lead-Free X-ray Detector from Metal-Organic Frameworks. Nano Letters, 2021, 21, 6983-6989.	4.5	24
11	Cu-based metal-organic frameworks for highly sensitive X-ray detectors. Chemical Communications, 2021, 57, 8612-8615.	2.2	7
12	Light-controlled molecular resistive switching ferroelectric heterojunction. Materials Today, 2020, 34, 51-57.	8.3	10
13	Radiation-assistant preparation of highly conductive, transparent and self-healing hydrogels with triple-network structure. Polymer, 2020, 188, 122156.	1.8	22
14	Ionizing radiation induces ferroptosis in granulocyte-macrophage hematopoietic progenitor cells of murine bone marrow. International Journal of Radiation Biology, 2020, 96, 584-595.	1.0	44
15	Ductile cooling phase change material. Nanoscale Advances, 2020, 2, 3900-3905.	2.2	7
16	Highly Sensitive Gold Nanoparticles-DNA Nanosensor for ¹³⁷ I-Radiation Detection. ACS Applied Materials & Interfaces, 2020, 12, 42403-42409.	4.0	15
17	Preparation of W ₁ /W ₂ emulsion to limit the diffusion of Fe ³⁺ in the Fricke gel 3D dosimeter. Polymers for Advanced Technologies, 2020, 31, 2127-2135.	1.6	6
18	Multifunctional smart electronic skin fabricated from two-dimensional like polymer film. Nano Energy, 2020, 75, 105044.	8.2	27

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19	Gamma-radiation assisted preparation of Au/Fe ₃ O ₄ /poly(styrene-sodium styrene sulphonate) magnetic composite microspheres for catalysis. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 325, 453-462.	0.7	1
20	Printable Copper Sensor Electronics for High Temperature. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1867-1873.	2.0	37
21	Influence of embedded boron nitride nanosheets on Fe ³⁺ diffusion in Fricke gel dosimeter and its response to ¹³⁷ I rays. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 324, 359-365.	0.7	2
22	Fe ₃ O ₄ Nanoparticles Coated with Ag-Nanoparticle-Embedded Metal-Organic Framework MIL-100(Fe) for the Catalytic Reduction of 4-Nitrophenol. <i>ACS Applied Nano Materials</i> , 2020, 3, 2302-2309.	2.4	58
23	All-Printed Conformal High-Temperature Electronics on Flexible Ceramics. <i>ACS Applied Electronic Materials</i> , 2020, 2, 556-562.	2.0	11
24	Crystallization-Mediated Magnetolectric Response in Two-Dimensional Molecular Charge Transfer Crystals. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1735-1739.	2.0	2
25	Evaluation of the Effect of a Tracheal Stent on Radiation Dose Distribution via Micro-CT Imaging. <i>Technology in Cancer Research and Treatment</i> , 2019, 18, 153303381984448.	0.8	2
26	¹³⁷ I-Radiation Enhanced Luminescence of Thiol-Capped Quantum Dots in Aqueous Solution. <i>Nanomaterials</i> , 2019, 9, 506.	1.9	12
27	Multifunctional molecular charge-transfer thin films. <i>Nanoscale</i> , 2019, 11, 22585-22589.	2.8	0
28	One-pot synthesis of potassium iron hexacyanoferrate/polyacrylamide nanohybrid hydrogel via gamma radiation and its adsorption property. <i>Functional Materials Letters</i> , 2019, 12, 1950031.	0.7	1
29	Mechanisms of strontium's adsorption by <i>Saccharomyces cerevisiae</i> : Contribution of surface and intracellular uptakes. <i>Chemosphere</i> , 2019, 215, 15-24.	4.2	11
30	Biosorption of strontium ions from simulated high-level liquid waste by living <i>Saccharomyces cerevisiae</i> . <i>Environmental Science and Pollution Research</i> , 2018, 25, 17194-17206.	2.7	10
31	Radiosensitivity enhancement of Fe ₃ O ₄ @Ag nanoparticles on human glioblastoma cells. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 975-984.	1.9	25
32	In situ green production of Prussian blue/natural porous framework nanocomposites for radioactive Cs ⁺ removal. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2018, 316, 209-219.	0.7	17
33	Batch and fixed-bed column studies for selective removal of cesium ions by compressible Prussian blue/polyurethane sponge. <i>RSC Advances</i> , 2018, 8, 36459-36467.	1.7	20
34	Three-dimensional directed assembly of organic charge-transfer heterostructure. <i>Nanoscale</i> , 2018, 10, 23170-23174.	2.8	2
35	Preparation of Well-Dispersed Nanosilver in MIL-101(Cr) Using Double-Solvent Radiation Method for Catalysis. <i>Nano</i> , 2018, 13, 1850145.	0.5	4
36	Enhancement of radiotherapy efficacy by silver nanoparticles in hypoxic glioma cells. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 922-930.	1.9	47

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37	The properties of neutron shielding and flame retardant of EVA polymer after modified by EB accelerator. <i>Radiation Physics and Chemistry</i> , 2017, 140, 322-327.	1.4	9
38	Biosorption of the strontium ion by irradiated <i>Saccharomyces cerevisiae</i> under culture conditions. <i>Journal of Environmental Radioactivity</i> , 2017, 172, 52-62.	0.9	21
39	Molecular Assembly-Induced Charge Transfer for Programmable Functionalities. <i>Chemistry of Materials</i> , 2017, 29, 9851-9858.	3.2	9
40	Radiation-assisted synthesis of Prussian blue nanoparticles using sugar as stabilizer. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 314, 289-295.	0.7	2
41	Facile one-pot synthesis of magnetic Prussian blue core/shell nanoparticles for radioactive cesium removal. <i>RSC Advances</i> , 2016, 6, 96223-96228.	1.7	54
42	β -Radiation fabrication of porous permutite/carbon nanobeads/alginate nanocomposites and their adsorption properties for Cs ⁺ . <i>RSC Advances</i> , 2016, 6, 86829-86835.	1.7	5
43	Fabrication and high radiation-resistant properties of functionalized carbon nanotube reinforced novolac epoxy resin nanocomposite coatings. <i>RSC Advances</i> , 2016, 6, 58296-58301.	1.7	11
44	Selective sorption mechanism of Cs ⁺ on potassium nickel hexacyanoferrate(II) compounds. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 304, 527-533.	0.7	19
45	VISUALIZING THE UPTAKE AND INTRACELLULAR VESICLE TRANSPORT OF CARBON NANOTUBES TOWARD THE PERINUCLEAR REGION INSIDE CELLS. <i>Nano</i> , 2014, 09, 1450001.	0.5	1
46	Preparation of Prussian blue analogue/carbon nanotube sponge adsorbent for cesium. <i>Micro and Nano Letters</i> , 2014, 9, 825-828.	0.6	7
47	UV-Enhanced Cytotoxicity of CdTe Quantum Dots in PANC-1 Cells Depend on Their Size Distribution and Surface Modification. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 751-754.	0.9	6
48	Magnetic Nanoparticle Decorated Multi-Walled Carbon Nanotubes for Removing Copper Ammonia Complex from Water. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 1927-1930.	0.9	8
49	The combined influence of surface modification, size distribution, and interaction time on the cytotoxicity of CdTe quantum dots in PANC-1 cells. <i>Acta Biochimica Et Biophysica Sinica</i> , 2012, 44, 241-248.	0.9	14
50	Effects of WO ₃ Particle Size in WO ₃ /Epoxy Resin Radiation Shielding Material. <i>Chinese Physics Letters</i> , 2012, 29, 108102.	1.3	47
51	Subcellular Tracking of Drug Release from Carbon Nanotube Vehicles in Living Cells. <i>Small</i> , 2012, 8, 777-782.	5.2	52
52	Gamma radiation synthesis of plasmonic nanoparticles for dark field cell imaging. <i>Micro and Nano Letters</i> , 2012, 7, 360.	0.6	5
53	A novel cerrobend block in the radiation therapy. <i>Science China Technological Sciences</i> , 2012, 55, 22-27.	2.0	3
54	One-step fabrication of biocompatible chitosan-coated ZnS and ZnS:Mn ²⁺ quantum dots via a β -radiation route. <i>Nanoscale Research Letters</i> , 2011, 6, 591.	3.1	42

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55	Cell Response to Carbon Nanotubes: Size-Dependent Intracellular Uptake Mechanism and Subcellular Fate. <i>Small</i> , 2010, 6, 2362-2366.	5.2	121
56	PREPARATION OF NANO-POLY(LEAD ACRYLATE) EPOXY RESIN BASED RADIATION-PROTECTION MATERIAL AND ITS PROPERTIES. <i>Acta Polymerica Sinica</i> , 2010, 010, 582-587.	0.0	10
57	Synthesis of antimicrobial silver nanoparticles on silk fibers via γ -radiation. <i>Journal of Applied Polymer Science</i> , 2009, 112, 2511-2515.	1.3	40
58	Cancer-Cell Targeting and Photoacoustic Therapy Using Carbon Nanotubes as "Bomb" Agents. <i>Small</i> , 2009, 5, 1292-1301.	5.2	139
59	Fabrication of silk fibroin coated ZnSe : Mn ²⁺ quantum dots under γ -radiation and their magnetic properties. <i>Solid State Communications</i> , 2009, 149, 1180-1183.	0.9	9
60	Biodistribution and accumulation of intravenously administered carbon nanotubes in mice probed by Raman spectroscopy and fluorescent labeling. <i>Carbon</i> , 2009, 47, 1189-1192.	5.4	58
61	UV-enhanced cytotoxicity of thiol-capped CdTe quantum dots in human pancreatic carcinoma cells. <i>Toxicology Letters</i> , 2009, 188, 104-111.	0.4	57
62	γ -Radiation Synthesis of Silk Fibroin Coated CdSe Quantum Dots and Their Biocompatibility and Photostability in Living Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 5693-5700.	0.9	20
63	Synthesis of green CdSe/chitosan quantum dots using a polymer-assisted γ -radiation route. <i>Radiation Physics and Chemistry</i> , 2008, 77, 859-863.	1.4	27
64	Explosion of single-walled carbon nanotubes in suspension induced by a large photoacoustic effect. <i>Carbon</i> , 2008, 46, 978-981.	5.4	21
65	Intracellular uptake, trafficking and subcellular distribution of folate conjugated single walled carbon nanotubes within living cells. <i>Nanotechnology</i> , 2008, 19, 375103.	1.3	49
66	A novel route to synthesize CdS quantum dots on the surface of silk fibers via γ -radiation. <i>Materials Letters</i> , 2008, 62, 3447-3449.	1.3	24
67	γ -Radiation Synthesis and Properties of Superparamagnetic CS-ZnSe:Mn Nanocrystals for Biological Labeling. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 3857-3863.	0.9	6
68	Radiation synthesis and magnetic properties of novel Co _{0.7} Fe _{0.3} /Chitosan compound nanoparticles for targeted drug carrier. <i>Radiation Physics and Chemistry</i> , 2007, 76, 968-973.	1.4	10
69	Bramble-like Mesostuctured Nickel Oxide Fiber Clusters. <i>Materials Research Society Symposia Proceedings</i> , 2003, 788, 8181.	0.1	0