Lumin Wang

List of Publications by Year
in descending order

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Version: 2024-02-01

48	2,938	331259	288905
papers	citations	21 h-index	40 g-index

49	49	49	3502
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhancing radiation tolerance by controlling defect mobility and migration pathways in multicomponent single-phase alloys. Nature Communications, 2016, 7, 13564.	5.8	533
2	Influence of chemical disorder on energy dissipation and defect evolution in concentrated solid solution alloys. Nature Communications, 2015, 6, 8736.	5.8	477
3	â€œInvisibleâ€•gold revealed: Direct imaging of gold nanoparticles in a Carlin-type deposit. American Mineralogist, 2004, 89, 1359-1366.	0.9	279
4	Fluorescent, Superparamagnetic Nanospheres for Drug Storage, Targeting, and Imaging: A Multifunctional Nanocarrier System for Cancer Diagnosis and Treatment. ACS Nano, 2010, 4, 5398-5404.	7.3	241
5	Fluorescent Polystyreneâ€“Fe₃O₄ Composite Nanospheres for In Vivo Imaging and Hyperthermia. Advanced Materials, 2009, 21, 2170-2173.	11.1	174
6	Patterning Metallic Nanostructures by Ion-Beam-Induced Dewetting and Rayleigh Instability. Nano Letters, 2006, 6, 1047-1052.	4.5	133
7	Direct Observation of Defect Range and Evolution in Ion-Irradiated Single Crystalline Ni and Ni Binary Alloys. Scientific Reports, 2016, 6, 19994.	1.6	131
8	Influence of chemical disorder on energy dissipation and defect evolution in advanced alloys. Journal of Materials Research, 2016, 31, 2363-2375.	1.2	110
9	In vivo Imaging and Drug Storage by Quantumâ€Dotâ€Conjugated Carbon Nanotubes. Advanced Functional Materials, 2008, 18, 2489-2497.	7.8	108
10	Shockwave generates < 100 > dislocation loops in bcc iron. Nature Communications, 2018, 9, 4880.	5.8	106
11	Thermal behavior of metal nanoparticles in geologic materials. Geology, 2006, 34, 1033.	2.0	105
12	Angular dependence of sputtering yield of amorphous and polycrystalline materials. Journal Physics D: Applied Physics, 2008, 41, 172002.	1.3	62
13	Plasma deposition and characterization of acrylic acid thin film on ZnO nanoparticles. Journal of Materials Research, 2002, 17, 2555-2560.	1.2	57
14	Enhanced void swelling in NiCoFeCrPd high-entropy alloy by indentation-induced dislocations. Materials Research Letters, 2018, 6, 584-591.	4.1	46
15	Disorder in Mn+1AXn phases at the atomic scale. Nature Communications, 2019, 10, 622.	5.8	41
16	Enhanced Radiation-tolerant Oxide Dispersion Strengthened Steel and its Microstructure Evolution under Helium-implantation and Heavy-ion Irradiation. Scientific Reports, 2017, 7, 40343.	1.6	34
17	Comparison of Ionâ€Beam Irradiation Effects in X2YO4 Compounds. Journal of the American Ceramic Society, 1999, 82, 3321-3329.	1.9	31
18	Improving the Mechanical Properties of Polycarbonate Nanocomposites with Plasmaâ€Modified Carbon Nanofibers. Journal of Macromolecular Science - Physics, 2006, 45, 671-679.	0.4	25

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19	Formation of ultrafine uniform gold nanoparticles by sputtering and redeposition. Applied Physics Letters, 2009, 94, .	1.5	25
20	Optical Properties of GaSb Nanofibers. Nanoscale Research Letters, 2011, 6, 6.	3.1	25
21	Effects of plasma surface modification on interfacial behaviors and mechanical properties of carbon nanotube-Al2O3 nanocomposites. Applied Physics Letters, 2007, 91, .	1.5	22
22	Porous fission fragment tracks in fluorapatite. Physical Review B, 2010, 82, .	1.1	22
23	The effect of H+ irradiation on the Cs-ion exchange capacity of zeolite-NaY. Journal of Materials Chemistry, 2000, 10, 2610-2616.	6.7	21
24	Conjugation of quantum dots and Fe3O4 on carbon nanotubes for medical diagnosis and treatment. Applied Physics Letters, 2009, 95, 223702.	1.5	17
25	Irradiationâ€Induced Extremes Create Hierarchical Faceâ€/Bodyâ€Centeredâ€Cubic Phases in Nanostructured High Entropy Alloys. Advanced Materials, 2020, 32, 2002652.	11.1	14
26	Direct formation of SiO2/SnO2 composite nanoparticles with high surface area and high thermal stability by solâ€“gel-hydrothermal process. Journal of Sol-Gel Science and Technology, 2009, 49, 196-201.	1.1	12
27	Enhanced photoluminescence from gallium arsenide semiconductor coated with Au nanoparticles. Applied Physics A: Materials Science and Processing, 2009, 96, 637-641.	1.1	12
28	The effects of carbon coating on nanoripples induced by focused ion beam. Applied Physics Letters, 2009, 94, 073103.	1.5	10
29	The effects of radiation on the retention of strontium in zeolite-NaSrY. Journal of Materials Chemistry, 2002, 12, 233-238.	6.7	9
30	The effects of substrate size and temperature on the deposition of Cu clusters on a Si substrate. Journal of Applied Physics, 2012, 112, 024903.	1.1	8
31	Nanostructures Formation in Al-B4C Neutron Absorbing Materials after Accelerated Irradiation and Corrosion Tests. Microscopy and Microanalysis, 2015, 21, 1159-1160.	0.2	8
32	Formation of GaSb core-shell nanofibers by a thermally induced phase decomposition process. Journal of Materials Research, 2009, 24, 2286-2292.	1.2	7
33	Swelling and Helium Bubble Morphology in a Cryogenically Treated FeCrNi Alloy with Martensitic Transformation and Reversion after Helium Implantation. Materials, 2019, 12, 2821.	1.3	7
34	Morphological instability of Cu nanolines induced by Ga+-ion bombardment: In situ scanning electron microscopy and theoretical model. Journal of Applied Physics, 2008, 103, 074306.	1.1	6
35	Controlling the Structure and Size of Au Nanocrystals by Annealing and Ion Sputtering. Langmuir, 2012, 28, 51-55.	1.6	5
36	Radiation and Thermal Effects in Zeolite-NaY. Materials Research Society Symposia Proceedings, 1999, 608, 493.	0.1	4

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37	Heavy Ion Irradiation of Brannerite-type Ceramics. Materials Research Society Symposia Proceedings, 2000, 650, 3171.	0.1	3
38	Characterization of Changes in Properties and Microstructure of Glassy Polymeric Carbon Following Au Ion Irradiation. Materials Research Society Symposia Proceedings, 2009, 1215, 1.	0.1	2
39	Effects of Proton Irradiation in Zeolite-Y. Materials Research Society Symposia Proceedings, 2000, 650, 3161.	0.1	1
40	Coating of Ultrathin Polymer Films on Carbon Nanotubes by a Plasma Treatment. Materials Research Society Symposia Proceedings, 2002, 740, 1.	0.1	1
41	Ge Nanocrystal Formed Directly by High-Dose-Ion-Implantation and the Related UV-VIS Photoluminescence. Materials Research Society Symposia Proceedings, 2003, 792, 539.	0.1	1
42	Effect of Iodine and Strontium Ion Implantation on the Microstructure of Cubic Zirconia. Materials Research Society Symposia Proceedings, 2000, 647, 1.	0.1	0
43	Influence of High-Fluence Proton Irradiation on the Optical Absorption and Microstructure of Rutile. Materials Research Society Symposia Proceedings, 2003, 792, 309.	0.1	0
44	Magnetic Alignment of Carbon Nanofibers in Polymer Composites. Materials Research Society Symposia Proceedings, 2004, 858, 248.	0.1	0
45	Nanoscale Heavy Metal Phases on Atmospheric and Groundwater Colloids. ACS Symposium Series, 2004, , 97-101.	0.5	0
46	Influence of Neutron Transmutation Doping on Optical Properties of Ge nanocrystals Prepared by Ion implantation. Materials Research Society Symposia Proceedings, 2005, 908, 1.	0.1	0
47	Stability of Precipitates in Zirconium Alloys under Self-ion Irradiation. Microscopy and Microanalysis, 2015, 21, 1007-1008.	0.2	0
48	Highâ€Entropy Alloys: Irradiationâ€Induced Extremes Create Hierarchical Faceâ€/Bodyâ€Centeredâ€Cubic Phases in Nanostructured High Entropy Alloys (Adv. Mater. 39/2020). Advanced Materials, 2020, 32, .	11.1	0