

Lumin Wang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

2,226
citations

20
h-index

47
g-index

49
ext. papers

2,603
ext. citations

7.3
avg, IF

4.24
L-index

#	Paper	IF	Citations
49	High-Entropy Alloys: Irradiation-Induced Extremes Create Hierarchical Face-/Body-Centered-Cubic Phases in Nanostructured High Entropy Alloys (Adv. Mater. 39/2020). <i>Advanced Materials</i> , 2020 , 32, 2070294	24	294
48	Irradiation-Induced Extremes Create Hierarchical Face-/Body-Centered-Cubic Phases in Nanostructured High Entropy Alloys. <i>Advanced Materials</i> , 2020 , 32, e2002652	24	8
47	Swelling and Helium Bubble Morphology in a Cryogenically Treated FeCrNi Alloy with Martensitic Transformation and Reversion after Helium Implantation. <i>Materials</i> , 2019 , 12,	3.5	4
46	Disorder in MAX phases at the atomic scale. <i>Nature Communications</i> , 2019 , 10, 622	17.4	13
45	Enhanced void swelling in NiCoFeCrPd high-entropy alloy by indentation-induced dislocations. <i>Materials Research Letters</i> , 2018 , 6, 584-591	7.4	27
44	Shockwave generates dislocation loops in bcc iron. <i>Nature Communications</i> , 2018 , 9, 4880	17.4	74
43	Enhanced Radiation-tolerant Oxide Dispersion Strengthened Steel and its Microstructure Evolution under Helium-implantation and Heavy-ion Irradiation. <i>Scientific Reports</i> , 2017 , 7, 40343	4.9	27
42	Influence of chemical disorder on energy dissipation and defect evolution in advanced alloys. <i>Journal of Materials Research</i> , 2016 , 31, 2363-2375	2.5	78
41	Direct Observation of Defect Range and Evolution in Ion-Irradiated Single Crystalline Ni and Ni Binary Alloys. <i>Scientific Reports</i> , 2016 , 6, 19994	4.9	100
40	Enhancing radiation tolerance by controlling defect mobility and migration pathways in multicomponent single-phase alloys. <i>Nature Communications</i> , 2016 , 7, 13564	17.4	336
39	Influence of chemical disorder on energy dissipation and defect evolution in concentrated solid solution alloys. <i>Nature Communications</i> , 2015 , 6, 8736	17.4	330
38	Nanostructures Formation in Al-B4C Neutron Absorbing Materials after Accelerated Irradiation and Corrosion Tests. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1159-1160	0.5	5
37	Stability of Precipitates in Zirconium Alloys under Self-ion Irradiation. <i>Microscopy and Microanalysis</i> , 2015 , 21, 1007-1008	0.5	
36	Controlling the structure and size of Au nanocrystals by annealing and ion sputtering. <i>Langmuir</i> , 2012 , 28, 51-5	4	5
35	The effects of substrate size and temperature on the deposition of Cu clusters on a Si substrate. <i>Journal of Applied Physics</i> , 2012 , 112, 024903	2.5	7
34	Optical Properties of GaSb Nanofibers. <i>Nanoscale Research Letters</i> , 2011 , 6, 6	5	23
33	Porous fission fragment tracks in fluorapatite. <i>Physical Review B</i> , 2010 , 82,	3.3	18

32	Fluorescent, superparamagnetic nanospheres for drug storage, targeting, and imaging: a multifunctional nanocarrier system for cancer diagnosis and treatment. <i>ACS Nano</i> , 2010 , 4, 5398-404	16.7	222
31	Formation of ultrafine uniform gold nanoparticles by sputtering and redeposition. <i>Applied Physics Letters</i> , 2009 , 94, 133107	3.4	24
30	The effects of carbon coating on nanoripples induced by focused ion beam. <i>Applied Physics Letters</i> , 2009 , 94, 073103	3.4	10
29	Characterization of Changes in Properties and Microstructure of Glassy Polymeric Carbon Following Au Ion Irradiation. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1215, 1		1
28	Formation of GaSb core-shell nanofibers by a thermally induced phase decomposition process. <i>Journal of Materials Research</i> , 2009 , 24, 2286-2292	2.5	6
27	Fluorescent Polystyrene/Fe ₃ O ₄ Composite Nanospheres for In Vivo Imaging and Hyperthermia. <i>Advanced Materials</i> , 2009 , 21, 2170-2173	24	163
26	Direct formation of SiO ₂ /SnO ₂ composite nanoparticles with high surface area and high thermal stability by sol-gel-hydrothermal process. <i>Journal of Sol-Gel Science and Technology</i> , 2009 , 49, 196-201	2.3	11
25	Enhanced photoluminescence from gallium arsenide semiconductor coated with Au nanoparticles. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 96, 637-641	2.6	10
24	Conjugation of quantum dots and Fe ₃ O ₄ on carbon nanotubes for medical diagnosis and treatment. <i>Applied Physics Letters</i> , 2009 , 95, 223702	3.4	15
23	Morphological instability of Cu nanolines induced by Ga ⁺ -ion bombardment: In situ scanning electron microscopy and theoretical model. <i>Journal of Applied Physics</i> , 2008 , 103, 074306	2.5	6
22	Angular dependence of sputtering yield of amorphous and polycrystalline materials. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 172002	3	47
21	In vivo Imaging and Drug Storage by Quantum-Dot-Conjugated Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2008 , 18, 2489-2497	15.6	101
20	Effects of plasma surface modification on interfacial behaviors and mechanical properties of carbon nanotube-Al ₂ O ₃ nanocomposites. <i>Applied Physics Letters</i> , 2007 , 91, 261903	3.4	21
19	Thermal behavior of metal nanoparticles in geologic materials. <i>Geology</i> , 2006 , 34, 1033	5	75
18	Improving the Mechanical Properties of Polycarbonate Nanocomposites with Plasma-Modified Carbon Nanofibers. <i>Journal of Macromolecular Science - Physics</i> , 2006 , 45, 671-679	1.4	24
17	Patterning Metallic Nanostructures by Ion-Beam-Induced Dewetting and Rayleigh Instability. <i>Nano Letters</i> , 2006 , 6, 1047-1052	11.5	121
16	Influence of Neutron Transmutation Doping on Optical Properties of Ge Nanocrystals Prepared by Ion Implantation. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 908, 1		
15	Magnetic Alignment of Carbon Nanofibers in Polymer Composites. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 858, 248		

14	Invisible Gold revealed: Direct imaging of gold nanoparticles in a Carlin-type deposit. <i>American Mineralogist</i> , 2004 , 89, 1359-1366	2.9	206
13	Comparison of Ion-Beam Irradiation Effects in X ₂ YO ₄ Compounds. <i>Journal of the American Ceramic Society</i> , 2004 , 82, 3321-3329	3.8	27
12	Nanoscale Heavy Metal Phases on Atmospheric and Groundwater Colloids. <i>ACS Symposium Series</i> , 2004 , 97-101	0.4	
11	Influence of High-Fluence Proton Irradiation on the Optical Absorption and Microstructure of Rutile. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 792, 309		
10	Ge Nanocrystal Formed Directly by High-Dose-Ion-Implantation and the Related UV-VIS Photoluminescence. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 792, 539		1
9	Plasma deposition and characterization of acrylic acid thin film on ZnO nanoparticles. <i>Journal of Materials Research</i> , 2002 , 17, 2555-2560	2.5	49
8	The effects of radiation on the retention of strontium in zeolite-NaSrY. <i>Journal of Materials Chemistry</i> , 2002 , 12, 233-238		6
7	Coating of Ultrathin Polymer Films on Carbon Nanotubes by a Plasma Treatment. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 740, 1		1
6	Effect of Iodine and Strontium Ion Implantation on the Microstructure of Cubic Zirconia. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 647, 1		
5	Effects of Proton Irradiation in Zeolite-Y. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 650, 3161		
4	Heavy Ion Irradiation of Brannerite-type Ceramics. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 650, 3171		2
3	The effect of H ⁺ irradiation on the Cs-ion exchange capacity of zeolite-NaY. <i>Journal of Materials Chemistry</i> , 2000 , 10, 2610-2616		17
2	Radiation and Thermal Effects in Zeolite-NaY. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 608, 493		2
1	Evaluation of Aluminum-Boron Carbide Neutron Absorbing Materials for Interim Storage of Used Nuclear Fuel		3