Lumin Wang

List of Publications by Citations

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	Enhancing radiation tolerance by controlling defect mobility and migration pathways in multicomponent single-phase alloys. *Nature Communications*, **2016**, 7, 13564	17.4	336
48	Influence of chemical disorder on energy dissipation and defect evolution in concentrated solid solution alloys. *Nature Communications*, **2015**, 6, 8736	17.4	330
47	Fluorescent, superparamagnetic nanospheres for drug storage, targeting, and imaging: a multifunctional nanocarrier system for cancer diagnosis and treatment. *ACS Nano*, **2010**, 4, 5398-404	16.7	222
46	Invisible gold revealed: Direct imaging of gold nanoparticles in a Carlin-type deposit. *American Mineralogist*, **2004**, 89, 1359-1366	2.9	206
45	Fluorescent Polystyrene Fe3O4 Composite Nanospheres for In Vivo Imaging and Hyperthermia. *Advanced Materials*, **2009**, 21, 2170-2173	24	163
44	Patterning Metallic Nanostructures by Ion-Beam-Induced Dewetting and Rayleigh Instability. *Nano Letters*, **2006**, 6, 1047-1052	11.5	121
43	In vivo Imaging and Drug Storage by Quantum-Dot-Conjugated Carbon Nanotubes. *Advanced Functional Materials*, **2008**, 18, 2489-2497	15.6	101
42	Direct Observation of Defect Range and Evolution in Ion-Irradiated Single Crystalline Ni and Ni Binary Alloys. *Scientific Reports*, **2016**, 6, 19994	4.9	100
41	Influence of chemical disorder on energy dissipation and defect evolution in advanced alloys. *Journal of Materials Research*, **2016**, 31, 2363-2375	2.5	78
40	Thermal behavior of metal nanoparticles in geologic materials. *Geology*, **2006**, 34, 1033	5	75
39	Shockwave generates dislocation loops in bcc iron. *Nature Communications*, **2018**, 9, 4880	17.4	74
38	Plasma deposition and characterization of acrylic acid thin film on ZnO nanoparticles. *Journal of Materials Research*, **2002**, 17, 2555-2560	2.5	49
37	Angular dependence of sputtering yield of amorphous and polycrystalline materials. *Journal Physics D: Applied Physics*, **2008**, 41, 172002	3	47
36	Enhanced Radiation-tolerant Oxide Dispersion Strengthened Steel and its Microstructure Evolution under Helium-implantation and Heavy-ion Irradiation. *Scientific Reports*, **2017**, 7, 40343	4.9	27
35	Enhanced void swelling in NiCoFeCrPd high-entropy alloy by indentation-induced dislocations. *Materials Research Letters*, **2018**, 6, 584-591	7.4	27
34	Comparison of Ion-Beam Irradiation Effects in X2YO4 Compounds. *Journal of the American Ceramic Society*, **2004**, 82, 3321-3329	3.8	27
33	Formation of ultrafine uniform gold nanoparticles by sputtering and redeposition. *Applied Physics Letters*, **2009**, 94, 133107	3.4	24

32	Improving the Mechanical Properties of Polycarbonate Nanocomposites with Plasma-Modified Carbon Nanofibers. *Journal of Macromolecular Science - Physics*, **2006**, 45, 671-679	1.4	24
31	Optical Properties of GaSb Nanofibers. *Nanoscale Research Letters*, **2011**, 6, 6	5	23
30	Effects of plasma surface modification on interfacial behaviors and mechanical properties of carbon nanotube-Al2O3 nanocomposites. *Applied Physics Letters*, **2007**, 91, 261903	3.4	21
29	Porous fission fragment tracks in fluorapatite. *Physical Review B*, **2010**, 82,	3.3	18
28	The effect of H+ irradiationon the Cs-ion exchange capacity of zeolite-NaY. *Journal of Materials Chemistry*, **2000**, 10, 2610-2616		17
27	Conjugation of quantum dots and Fe3O4 on carbon nanotubes for medical diagnosis and treatment. *Applied Physics Letters*, **2009**, 95, 223702	3.4	15
26	Disorder in MAX phases at the atomic scale. *Nature Communications*, **2019**, 10, 622	17.4	13
25	Direct formation of SiO2/SnO2 composite nanoparticles with high surface area and high thermal stability by sol□gel-hydrothermal process. *Journal of Sol-Gel Science and Technology*, **2009**, 49, 196-201	2.3	11
24	The effects of carbon coating on nanoripples induced by focused ion beam. *Applied Physics Letters*, **2009**, 94, 073103	3.4	10
23	Enhanced photoluminescence from gallium arsenide semiconductor coated with Au nanoparticles. *Applied Physics A: Materials Science and Processing*, **2009**, 96, 637-641	2.6	10
22	Irradiation-Induced Extremes Create Hierarchical Face-/Body-Centered-Cubic Phases in Nanostructured High Entropy Alloys. *Advanced Materials*, **2020**, 32, e2002652	24	8
21	The effects of substrate size and temperature on the deposition of Cu clusters on a Si substrate. *Journal of Applied Physics*, **2012**, 112, 024903	2.5	7
20	Formation of GaSb core-shell nanofibers by a thermally induced phase decomposition process. *Journal of Materials Research*, **2009**, 24, 2286-2292	2.5	6
19	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	2.5	6
18	The effects of radiation on the retention of strontium in zeolite-NaSrY. *Journal of Materials Chemistry*, **2002**, 12, 233-238		6
17	Nanostructures Formation in Al-B4C Neutron Absorbing Materials after Accelerated Irradiation and Corrosion Tests. *Microscopy and Microanalysis*, **2015**, 21, 1159-1160	0.5	5
16	Controlling the structure and size of Au nanocrystals by annealing and ion sputtering. *Langmuir*, **2012**, 28, 51-5	4	5
15	Swelling and Helium Bubble Morphology in a Cryogenically Treated FeCrNi Alloy with Martensitic Transformation and Reversion after Helium Implantation. *Materials*, **2019**, 12,	3.5	4

14	Evaluation of Aluminum-Boron Carbide Neutron Absorbing Materials for Interim Storage of Used Nuclear Fuel	3
13	Heavy Ion Irradiation of Brannerite-type Ceramics. *Materials Research Society Symposia Proceedings*, **2000**, 650, 3171	2
12	Radiation and Thermal Effects in Zeolite-NaY. *Materials Research Society Symposia Proceedings*, **1999**, 608, 493	2
11	Characterization of Changes in Properties and Microstructure of Glassy Polymeric Carbon Following Au Ion Irradiation. *Materials Research Society Symposia Proceedings*, **2009**, 1215, 1	1
10	Ge Nanocrystal Formed Directly by High-Dose-Ion-Implantation and the Related UV-VIS Photoluminescence. *Materials Research Society Symposia Proceedings*, **2003**, 792, 539	1
9	Coating of Ultrathin Polymer Films on Carbon Nanotubes by a Plasma Treatment. *Materials Research Society Symposia Proceedings*, **2002**, 740, 1	1
8	Stability of Precipitates in Zirconium Alloys under Self-ion Irradiation. *Microscopy and Microanalysis*, **2015**, 21, 1007-1008	0.5
7	Magnetic Alignment of Carbon Nanofibers in Polymer Composites. *Materials Research Society Symposia Proceedings*, **2004**, 858, 248	
6	Influence of High-Fluence Proton Irradiation on the Optical Absorption and Microstructure of Rutile. *Materials Research Society Symposia Proceedings*, **2003**, 792, 309	
5	Nanoscale Heavy Metal Phases on Atmospheric and Groundwater Colloids. *ACS Symposium Series*, **2004**, 97-101	0.4
4	Influence of Neutron Transmutation Doping on Optical Properties of Ge Nanocrystals Prepared by Ion implantation. *Materials Research Society Symposia Proceedings*, **2005**, 908, 1	
3	Effect of Iodine and Strontium Ion Implantation on the Microstructure of Cubic Zirconia. *Materials Research Society Symposia Proceedings*, **2000**, 647, 1	
2	Effects of Proton Irradiation in Zeolite-Y. *Materials Research Society Symposia Proceedings*, **2000**, 650, 3161	
1	High-Entropy Alloys: Irradiation-Induced Extremes Create Hierarchical Face-/Body-Centered-Cubic Phases in Nanostructured High Entropy Alloys (Adv. Mater. 39/2020). *Advanced Materials*, **2020**, 32, 2070294	24