

Jiaming Zhang

List of Publications by Year in descending order

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43
papers

4,641
citations

186265
28
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289244
40
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all docs

43
docs citations

43
times ranked

5575
citing authors

#	ARTICLE	IF	CITATIONS
1	A Low-Current and Analog Memristor with Ru as Mobile Species. <i>Advanced Materials</i> , 2020, 32, e1904599.	21.0	59
2	Fully memristive neural networks for pattern classification with unsupervised learning. <i>Nature Electronics</i> , 2018, 1, 137-145.	26.0	787
3	Large Memristor Crossbars for Analog Computing. , 2018, , .		14
4	Capacitive neural network with neuro-transistors. <i>Nature Communications</i> , 2018, 9, 3208.	12.8	199
5	Analogue signal and image processing with large memristor crossbars. <i>Nature Electronics</i> , 2018, 1, 52-59.	26.0	879
6	Anatomy of Ag/Hafnia-Based Selectors with 10^{10} Nonlinearity. <i>Advanced Materials</i> , 2017, 29, 1604457.	21.0	292
7	Phase transformation and chemical decomposition of nanocrystalline SnO ₂ under heavy ion irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 407, 10-19.	1.4	0
8	Truly Electroforming-Free and Low-Energy Memristors with Preconditioned Conductive Tunneling Paths. <i>Advanced Functional Materials</i> , 2017, 27, 1702010.	14.9	75
9	Electron Tomography Study on Nanoscale HfO _x /AlO _y -based Resistive Switching Device. <i>Microscopy and Microanalysis</i> , 2017, 23, 1492-1493.	0.4	0
10	An accurate locally active memristor model for S-type negative differential resistance in NbO _x . <i>Applied Physics Letters</i> , 2016, 108, .	3.3	155
11	Trilayer Tunnel Selectors for Memristor Memory Cells. <i>Advanced Materials</i> , 2016, 28, 356-362.	21.0	96
12	Low-Power, Self-Rectifying, and Forming-Free Memristor with an Asymmetric Programming Voltage for a High-Density Crossbar Application. <i>Nano Letters</i> , 2016, 16, 6724-6732.	9.1	171
13	Thermally induced crystallization in NbO ₂ thin films. <i>Scientific Reports</i> , 2016, 6, 34294.	3.3	20
14	C ₆₀ and U ion irradiation of Gd ₂ Ti _x Zr _{2-2x} O ₇ pyrochlore. <i>Journal of Materials Research</i> , 2015, 30, 2456-2466.	2.6	9
15	Response of Gd ₂ Ti ₂ O ₇ and La ₂ Ti ₂ O ₇ to swift-heavy ion irradiation and annealing. <i>Acta Materialia</i> , 2015, 93, 1-11.	7.9	62
16	Swift heavy ion track formation in Gd ₂ Zr ₂ Ti ₂ O ₇ pyrochlore: Effect of electronic energy loss. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 336, 102-115.	1.4	48
17	Dipole-interaction mediated hyperthermia heating mechanism of nanostructured Fe ₃ O ₄ composites. <i>Materials Letters</i> , 2014, 129, 57-60.	2.6	14
18	Effect of spatial confinement on magnetic hyperthermia via dipolar interactions in Fe ₃ O ₄ nanoparticles for biomedical applications. <i>Materials Science and Engineering C</i> , 2014, 42, 52-63.	7.3	119

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19	Photoluminescence and photothermal effect of Fe ₃ O ₄ nanoparticles for medical imaging and therapy. Applied Physics Letters, 2014, 105, .	3.3	128
20	Carbonate orientational order and superlattice structure in vaterite. Journal of Crystal Growth, 2014, 407, 78-86.	1.5	15
21	Swift heavy ion irradiation-induced amorphization of La ₂ Ti ₂ O ₇ . Nuclear Instruments & Methods in Physics Research B, 2014, 326, 145-149.	1.4	25
22	Ion-irradiation-induced structural transitions in orthorhombic Ln ₂ TiO ₅ . Acta Materialia, 2013, 61, 4191-4199.	7.9	41
23	Tailoring the radiation tolerance of vanadate-phosphate fluorapatites by chemical composition control. RSC Advances, 2013, 3, 15178.	3.6	26
24	Dual Surface-Functionalized Janus Nanocomposites of Polystyrene/Fe ₃ O ₄ @SiO ₂ for Simultaneous Tumor Cell Targeting and Stimulus-Induced Drug Release. Advanced Materials, 2013, 25, 3485-3489.	21.0	186
25	Nanostructurally Designed Ultra-hydrophilic Hard Ceramic Oxide Coatings for Orthopaedic Application. Materials Research Society Symposia Proceedings, 2013, 1578, 1.	0.1	1
26	Swift heavy ion irradiation of diamond powder. Nuclear Instruments & Methods in Physics Research B, 2012, 286, 262-265.	1.4	2
27	Structural response of A ₂ TiO ₅ (A = La, Nd, Sm, Gd) to swift heavy ion irradiation. Acta Materialia, 2012, 60, 4477-4486.	7.9	42
28	Growth process and crystallographic properties of ammonia-induced vaterite. American Mineralogist, 2012, 97, 1437-1445.	1.9	58
29	Amorphization of nanocrystalline monoclinic ZrO ₂ by swift heavy ion irradiation. Physical Chemistry Chemical Physics, 2012, 14, 12295.	2.8	42
30	Nanosized Rutile (TiO ₂) Thin Film upon Ion Irradiation and Thermal Annealing. Journal of Physical Chemistry C, 2011, 115, 22755-22760.	3.1	14
31	Phase Transformation of Nanosized ZrO ₂ upon Thermal Annealing and Intense Radiation. Journal of Physical Chemistry C, 2011, 115, 7193-7201.	3.1	56
32	Fluorescent, Superparamagnetic Nanospheres for Drug Storage, Targeting, and Imaging: A Multifunctional Nanocarrier System for Cancer Diagnosis and Treatment. ACS Nano, 2010, 4, 5398-5404.	14.6	241
33	Irradiation of synthetic garnet by heavy ions and β -decay of ²⁴⁴ Cm. Journal of Nuclear Materials, 2010, 407, 137-142.	2.7	28
34	Review of A ₂ B ₂ O ₇ pyrochlore response to irradiation and pressure. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 2951-2959.	1.4	202
35	Nanoscale phase transitions under extreme conditions within an ion track. Journal of Materials Research, 2010, 25, 1344-1351.	2.6	87
36	Intrinsic Structural Disorder and Radiation Response of Nanocrystalline Gd ₂ (Ti _{0.65} Zr _{0.35}) ₂ O ₇ Pyrochlore. Journal of Physical Chemistry C, 2010, 114, 11810-11815.	3.1	38

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37	The effects of carbon coating on nanoripples induced by focused ion beam. Applied Physics Letters, 2009, 94, 073103.	3.3	10
38	Ion beam-induced amorphous-to-tetragonal phase transformation and grain growth of nanocrystalline zirconia. Nanotechnology, 2009, 20, 245303.	2.6	49
39	Nanoscale manipulation of the properties of solids at high pressure with relativistic heavy ions. Nature Materials, 2009, 8, 793-797.	27.5	85
40	Liquid-like phase formation in Gd ₂ Zr ₂ O ₇ by extremely ionizing irradiation. Journal of Applied Physics, 2009, 105, .	2.5	30
41	Single-ion tracks in $Gd_2Zr_2O_7$. Physical Review B, 2009, 79, .	2.5	12
42	Enhanced radiation resistance of nanocrystalline pyrochlore Gd ₂ (Ti _{0.65} Zr _{0.35}) ₂ O ₇ . Applied Physics Letters, 2009, 94, .	3.3	98
43	Self-assembly of well-aligned 3C-SiC ripples by focused ion beam. Applied Physics Letters, 2008, 92, .	3.3	13