

Jeremy N Mitchell

List of Publications by Year in descending order

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63
papers

1,163
citations

430874

18
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395702

33
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64
all docs

64
docs citations

64
times ranked

870
citing authors

#	ARTICLE	IF	CITATIONS
1	Sample seal-and-drop device and methodology for high temperature oxide melt solution calorimetric measurements of PuO ₂ . Review of Scientific Instruments, 2019, 90, 044101.	1.3	14
2	Extended nuclear quadrupole resonance study of the heavy-fermion superconductor PuCoGa ₅ . Physical Review B, 2016, 94, .	3.2	5
3	Crystal Structure and Thermodynamic Stability of Ba/Ti-Substituted Pollucites for Radioactive Cs/Ba Immobilization. Journal of the American Ceramic Society, 2015, 98, 2634-2640.	3.8	15
4	Superconductivity in plutonium compounds. Physica C: Superconductivity and Its Applications, 2015, 514, 184-188.	1.2	13
5	The valence-fluctuating ground state of plutonium. Science Advances, 2015, 1, e1500188.	10.3	89
6	Avoided valence transition in a plutonium superconductor. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3285-3289.	7.1	39
7	Detecting low concentrations of plutonium hydride with magnetization measurements. Journal of Applied Physics, 2015, 117, .	2.5	4
8	Weak itinerant antiferromagnetism in PuIn ₃ explored using ¹¹⁵ In nuclear quadrupole resonance. Journal of Physics Condensed Matter, 2014, 26, 036001.	1.8	7
9	Microscopic properties of the heavy-fermion superconductor PuCoIn ₅ explored by nuclear quadrupole resonance. New Journal of Physics, 2014, 16, 053019.	2.9	6
10	Delocalization and occupancy effects of 5f orbitals in plutonium intermetallics using L3-edge resonant X-ray emission spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2014, 194, 57-65.	1.7	37
11	Shubnikov-de Haas oscillation in PuIn ₃ . Journal of the Korean Physical Society, 2013, 63, 380-382.	0.7	3
12	The Γ_2^+ - Γ_1^+ phase transformation in plutonium. Acta Materialia, 2013, 61, 2895-2908.	7.9	2
13	Self-irradiation damage to the local structure of plutonium and plutonium intermetallics. Journal of Applied Physics, 2013, 113, .	2.5	20
14	PuPt_{2-7} : A computational and experimental investigation. Physical Review B, 2012, 86, .	3.2	4
15	Electronic Structure, Localization and Occupancy in Pu Materials. Materials Research Society Symposia Proceedings, 2012, 1444, 123.	0.1	1
16	Multiconfigurational nature of 5f orbitals in uranium and plutonium intermetallics. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 10205-10209.	7.1	94
17	Phase Transitions in Pure Plutonium. Materials Research Society Symposia Proceedings, 2012, 1444, 159.	0.1	2
18	Localized 5f electrons in superconducting PuCoIn ₅ : consequences for superconductivity in PuCoGa ₅ . Journal of Physics Condensed Matter, 2012, 24, 052206.	1.8	51

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19	Single crystal growth of plutonium compounds from molten metal fluxes. Philosophical Magazine, 2012, 92, 2466-2491.	1.6	12
20	Temperature dependence of elastic moduli of polycrystalline $\hat{\Gamma}^2$ plutonium. Physical Review B, 2011, 84, .	3.2	30
21	Pu Electronic Structure and Photoelectron Spectroscopy. Journal of Physics: Conference Series, 2011, 273, 012023.	0.4	10
22	Magnetic order in Pu ₂ M ₃ Si ₅ (M = Co, Ni). Journal of Physics Condensed Matter, 2011, 23, 094223.	1.8	7
23	A moving target: Responding to magnetic and structural disorder in lanthanide- and actinide-based superconductors. IOP Conference Series: Materials Science and Engineering, 2010, 9, 012087.	0.6	0
24	5f Electronic Structure and Fermiology of Pu Materials. Materials Research Society Symposia Proceedings, 2010, 1264, 1.	0.1	5
25	Hybridization and Superconducting Gaps in the Heavy-Fermion Superconductor $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle \text{PuCoGa} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 5 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle \text{Probed via the Dynamics of Photoinduced Quasiparticles. Physical Review Letters, 2010, 104, 227002.}$	7.8	23
26	Anisotropic Spin Fluctuations and Superconductivity in PuCoGa_5 Heavy Fermion Compounds: Co59NMR Study in PuCoGa5. Physical Review Letters, 2010, 105, 217002.	7.8	14
27	Polycrystalline gamma-plutonium's elastic moduli versus temperature. Journal of the Acoustical Society of America, 2010, 127, 741-745.	1.1	6
28	Thermophysical properties of coexistent phases of plutonium. IOP Conference Series: Materials Science and Engineering, 2010, 9, 012096.	0.6	1
29	Detection and quantification of residual $\hat{\Gamma}^{\pm}$ -phase in $\hat{\Gamma}^2$ -stabilized plutonium. IOP Conference Series: Materials Science and Engineering, 2010, 9, 012020.	0.6	3
30	Pu neutron scattering studies of Magnetism and structure. Journal of Nuclear Materials, 2009, 385, 35-37.	2.7	3
31	Unconventional $\hat{\Gamma}^2$ -phase stabilization in Pu-Ga alloys. Journal of Nuclear Materials, 2009, 385, 95-98.	2.7	8
32	Possible two-band superconductivity in PuRhGa5 and CeRhIn5. Journal of Alloys and Compounds, 2009, 488, 554-557.	5.5	6
33	Microstructure and Thermophysical Characterization of Mixed Oxide Fuels. Materials Research Society Symposia Proceedings, 2009, 1215, 1.	0.1	0
34	Enthalpy of formation of the cubic fluorite phase in the ceria-zirconia system. Journal of Materials Research, 2008, 23, 1105-1112.	2.6	19
35	Quantifying structural damage from self-irradiation in a plutonium superconductor. Physical Review B, 2007, 76, .	3.2	19
36	Self-irradiation damage and 5f localization in PuCoGa5. Journal of Alloys and Compounds, 2007, 444-445, 119-123.	5.5	10

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37	Alpha-plutonium's polycrystalline elastic moduli over its full temperature range. <i>Journal of the Acoustical Society of America</i> , 2007, 122, 1994-2001.	1.1	18
38	Phase-field modeling of coring structure evolution in Pu-Ga alloys. <i>Acta Materialia</i> , 2007, 55, 3641-3648.	7.9	6
39	Effect of Elastic Anisotropy and Inhomogeneity on Coring Structure Evolution in Pu-Ga Alloys - Phase-field modeling. <i>Journal of Computer-Aided Materials Design</i> , 2007, 14, 389-402.	0.7	2
40	On the fcc to monoclinic martensite transformation in a Pu-1.7 at.% Ga alloy. <i>Acta Materialia</i> , 2006, 54, 1917-1925.	7.9	24
41	Evidence of transformation bursts during thermal cycling of a Pu-Ga alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006, 37, 567-577.	2.2	27
42	Lattice constants and anisotropic microstrain at low temperature in Pu-Ga alloys. <i>Philosophical Magazine</i> , 2005, 85, 2007-2025.	1.6	21
43	Phase stability and phase transformations in plutonium and plutonium-gallium alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004, 35, 2267-2278.	2.2	37
44	The alpha prime to delta reversion transformation in Pu-Ga alloys. <i>Jom</i> , 2003, 55, 28-30.	1.9	4
45	Electron backscatter diffraction of a plutonium-gallium alloy. <i>Journal of Nuclear Materials</i> , 2003, 312, 67-75.	2.7	6
46	Modeling of structural and compositional homogenization of plutonium-1 weight percent gallium alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2001, 32, 649-659.	2.2	5
47	Modeling of structural and compositional homogenization of plutonium-1 weight percent gallium alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2001, 32, 649-659.	2.2	25
48	Initial electron backscattered diffraction observations of a plutonium alloy. <i>Scripta Materialia</i> , 2001, 45, 1107-1115.	5.2	11
49	The Evolution of Troctolitic and High Al Basaltic Magmas in Proterozoic Anorthosite Plutonic Suites and Implications for the Voisey's Bay Massive Ni-Cu Sulfide Deposit. <i>Economic Geology</i> , 2000, 95, 677-701.	3.8	29
50	Radiation effects in corundum structure derivatives. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1998, 141, 461-466.	1.4	8
51	Radiation response of FeTiO ₃ , MgTiO ₃ , and γ -Al ₂ O ₃ . <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998, 253, 131-134.	5.6	14
52	Mineral-Chemical and Isotopic Variations in Apollo 16 Impact-Melt Breccias. <i>International Geology Review</i> , 1998, 40, 784-804.	2.1	0
53	Ion irradiation damage in geikielite (MgTiO ₃). <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1998, 78, 713-725.	0.6	8
54	Radiation Damage Effects in Ferroelectric LiTaO ₃ Single Crystals. <i>Materials Research Society Symposia Proceedings</i> , 1997, 504, 159.	0.1	3

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55	Petrology of the Early Proterozoic Burakovsky layered intrusion, southern Karelia, Russia: mineral and whole-rock major-element chemistry. Canadian Journal of Earth Sciences, 1997, 34, 390-406.	1.3	14
56	Ion irradiation damage in ilmenite at 100 K. Nuclear Instruments & Methods in Physics Research B, 1997, 127-128, 629-633.	1.4	8
57	Title is missing!. Bulletin of the Geological Society of America, 1996, 108, 1357.	3.3	98
58	In situ MeV ion beam analysis of ceramic surfaces modified by 100-400 keV ion irradiation. Nuclear Instruments & Methods in Physics Research B, 1996, 118, 766-771.	1.4	14
59	The Geochemical Evolution of Anorthosite Residual Magmas in the Laramie Anorthosite Complex, Wyoming. Journal of Petrology, 1996, 37, 637-660.	2.8	100
60	A Comparative Study of Radiation Damage In Al ₂ O ₃ , FeTiO ₃ , And MgTiO ₃ . Materials Research Society Symposia Proceedings, 1995, 396, 173.	0.1	2
61	High-Al gabbros in the Laramie Anorthosite Complex, Wyoming: implications for the composition of melts parental to Proterozoic anorthosite. Contributions To Mineralogy and Petrology, 1995, 119, 166-180.	3.1	94
62	In situ Ion Beam Analysis of Radiation Damage Kinetics in MgTiO ₃ Single Crystals at 170-470 K. Materials Research Society Symposia Proceedings, 1995, 396, 161.	0.1	1
63	High-Al gabbros in the Laramie Anorthosite Complex, Wyoming: implications for the composition of melts parental to Proterozoic anorthosite. Contributions To Mineralogy and Petrology, 1995, 119, 166-180.	3.1	2