Cameron L Tracy

List of Publications by Year
in descending order

42 papers	1,390 citations	331259 21 h-index	329751 37 g-index
43 all docs	43 docs citations	43 times ranked	1528 citing authors

#	Article	IF	Citations
1	High pressure synthesis of a hexagonal close-packed phase of the high-entropy alloy CrMnFeCoNi. Nature Communications, 2017, 8, 15634.	5.8	241
2	Probing disorder in isometric pyrochlore and related complex oxides. Nature Materials, 2016, 15, 507-511.	13.3	164
3	Redox response of actinide materials to highly ionizing radiation. Nature Communications, 2015, 6, 6133.	5.8	72
4	Structural response of titanate pyrochlores to swift heavy ion irradiation. Acta Materialia, 2016, 117, 207-215.	3.8	64
5	Response of Gd2Ti2O7 and La2Ti2O7 to swift-heavy ion irradiation and annealing. Acta Materialia, 2015, 93, 1-11.	3.8	62
6	Similar local order in disordered fluorite and aperiodic pyrochlore structures. Acta Materialia, 2018, 144, 60-67.	3.8	60
7	Role of composition, bond covalency, and short-range order in the disordering of stannate pyrochlores by swift heavy ion irradiation. Physical Review B, 2016, 94, .	1.1	53
8	Swift heavy ion track formation in Gd2Zr2â^’Ti O7 pyrochlore: Effect of electronic energy loss. Nuclear Instruments & Methods in Physics Research B, 2014, 336, 102-115.	0.6	48
9	Grain size effects on irradiated CeO2, ThO2, and UO2. Acta Materialia, 2018, 160, 47-56.	3.8	45
10	Structural response of A2TiO5 (A = La, Nd, Sm, Gd) to swift heavy ion irradiation. Acta Materialia, 2012, 60, 4477-4486.	3.8	42
11	Defect accumulation in ThO2 irradiated with swift heavy ions. Nuclear Instruments & Methods in Physics Research B, 2014, 326, 169-173.	0.6	41
12	Phase transformations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ln</mml:mi><mml:mn>2</mml:mn></mml:m mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>materials irradiated with swift heavy ions. Physical Review B, 2015, 92, .	1.1	41
13	Disorder in Mn+1AXn phases at the atomic scale. Nature Communications, 2019, 10, 622.	5.8	41
14	Characterization of ion-induced radiation effects in nuclear materials using synchrotron x-ray techniques. Journal of Materials Research, 2015, 30, 1366-1379.	1.2	36
15	Defect accumulation in swift heavy ion-irradiated CeO₂ and ThO₂. Journal of Materials Chemistry A, 2017, 5, 12193-12201.	5.2	36
16	Pressure-induced structural modifications of rare-earth hafnate pyrochlore. Journal of Physics Condensed Matter, 2017, 29, 255401.	0.7	32
17	Swift heavy ion-induced phase transformation in Gd2O3. Nuclear Instruments & Methods in Physics Research B, 2014, 326, 121-125.	0.6	31
18	Swift heavy ion irradiation-induced amorphization of La2Ti2O7. Nuclear Instruments & Methods in Physics Research B, 2014, 326, 145-149.	0.6	25

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19	<i>In situ</i> defect annealing of swift heavy ion irradiated CeO₂ and ThO₂ using synchrotron X-ray diffraction and a hydrothermal diamond anvil cell. Journal of Applied Crystallography, 2015, 48, 711-717.	1.9	25
20	Role of the X and n factors in ion-irradiation induced phase transformations of Mn+1AXn phases. Acta Materialia, 2018, 144, 432-446.	3.8	21
21	Radiation effects in Mn+1AXn phases. Applied Physics Reviews, 2020, 7, .	5.5	21
22	Review of Swift Heavy Ion Irradiation Effects in CeO2. Quantum Beam Science, 2021, 5, 19.	0.6	21
23	Anisotropic expansion and amorphization of Ga2O3 irradiated with 946 MeV Au ions. Nuclear Instruments & Methods in Physics Research B, 2016, 374, 40-44.	0.6	15
24	Effects of irradiation temperature on the response of CeO2, ThO2, and UO2 to highly ionizing radiation. Journal of Nuclear Materials, 2019, 525, 83-91.	1.3	15
25	Policy: Reassess New Mexico's nuclear-waste repository. Nature, 2016, 529, 149-151.	13.7	14
26	Ultrafast laser and swift heavy ion irradiation: Response of Gd2O3 and ZrO2 to intense electronic excitation. Applied Physics Letters, 2015, 106, .	1.5	13
27	Phase transformations of Al-bearing high-entropy alloys AlxCoCrFeNi (xâ€‰=â€‰0, 0.1, 0.3, 0.75, 1.5) at high pressure. Applied Physics Letters, 2019, 114, .	1.5	13
28	Review of recent experimental results on the behavior of actinide-bearing oxides and related materials in extreme environments. Progress in Nuclear Energy, 2018, 104, 342-358.	1.3	12
29	Structure and bulk modulus of Ln-doped UO2 (LnÂ= La, Nd) at high pressure. Journal of Nuclear Materials, 2017, 490, 28-33.	1.3	11
30	Lanthanide stannate pyrochlores (Ln₂Sn₂O₇; Lnâ€‰â€‰=â€‰â€‰Nd, Gd, Er) at high pressure. Journal of Physics Condensed Matter, 2017, 29, 504005.	0.7	11
31	Measurement of UO2 surface oxidation using grazing-incidence x-ray diffraction: Implications for nuclear forensics. Journal of Nuclear Materials, 2018, 502, 68-75.	1.3	10
32	Radiation-induced disorder in compressed lanthanide zirconates. Physical Chemistry Chemical Physics, 2018, 20, 6187-6197.	1.3	10
33	Swift-heavy ion irradiation response and annealing behavior of A2TiO5 (A = Nd, Gd, and Yb). Journal of Solid State Chemistry, 2018, 258, 108-116.	1.4	10
34	Multi-scale investigation of heterogeneous swift heavy ion tracks in stannate pyrochlore. Journal of Materials Chemistry A, 2021, 9, 16982-16997.	5.2	8
35	Thermal defect annealing of swift heavy ion irradiated ThO2. Nuclear Instruments & Methods in Physics Research B, 2017, 405, 15-21.	0.6	6
36	A₂TiO₅ (A = Dy, Gd, Er, Yb) at High Pressure. Inorganic Chemistry, 2018, 57, 2269-2277.	1.9	6

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37	Phase transformation pathways of ultrafast-laser-irradiated <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Ln</mml:mi><mml:mn>2</mml:mn></mn mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow><mml:mspace width="4pt" /><mml:mo>(</mml:mo><mml:mrow><mml:mi>Ln</mml:mi><mml:mo>=</mml:mo><mml:mi>Er</mml:mi><mml:mo>â€“</mml:mo> Physical Review B, 2018, 97, .	1.1	4
38	Transformations to amorphous and X-type phases in swift heavy ion-irradiated Ln2O3 and Mn2O3. Journal of Applied Physics, 2021, 129, .	1.1	3
39	Synchrotron x-ray diffraction analysis of gadolinium and lanthanum titanate oxides irradiated by xenon and tantalum swift heavy ions. Materials Research Society Symposia Proceedings, 2015, 1743, 26.	0.1	2
40	Initial stages of ion beam-induced phase transformations in Gd2O3 and Lu2O3. Applied Physics Letters, 2018, 112, 073904.	1.5	2
41	Cleanup and Complexity: Nuclear and Industrial Contamination at The Santa Susana Field Laboratory, California. Environmental Management, 2020, 65, 257-271.	1.2	2
42	Opportunities for US-Russian collaboration on the safe disposal of nuclear waste. Bulletin of the Atomic Scientists, 2021, 77, 146-152.	0.2	1