

# Cameron L Tracy

## List of Publications by Year in descending order

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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	Multi-scale investigation of heterogeneous swift heavy ion tracks in stannate pyrochlore. Journal of Materials Chemistry A, 2021, 9, 16982-16997.	5.2	8
2	Opportunities for US-Russian collaboration on the safe disposal of nuclear waste. Bulletin of the Atomic Scientists, 2021, 77, 146-152.	0.2	1
3	Transformations to amorphous and X-type phases in swift heavy ion-irradiated Ln <sub>2</sub> O <sub>3</sub> and Mn <sub>2</sub> O <sub>3</sub> . Journal of Applied Physics, 2021, 129, .	1.1	3
4	Review of Swift Heavy Ion Irradiation Effects in CeO <sub>2</sub> . Quantum Beam Science, 2021, 5, 19.	0.6	21
5	Cleanup and Complexity: Nuclear and Industrial Contamination at The Santa Susana Field Laboratory, California. Environmental Management, 2020, 65, 257-271.	1.2	2
6	Radiation effects in Mn <sub>1-x</sub> AX <sub>n</sub> phases. Applied Physics Reviews, 2020, 7, .	5.5	21
7	Effects of irradiation temperature on the response of CeO <sub>2</sub> , ThO <sub>2</sub> , and UO <sub>2</sub> to highly ionizing radiation. Journal of Nuclear Materials, 2019, 525, 83-91.	1.3	15
8	Phase transformations of Al-bearing high-entropy alloys Al <sub>x</sub> CoCrFeNi (x = 0, 0.1, 0.3, 0.75, 1.5) at high pressure. Applied Physics Letters, 2019, 114, .	1.5	13
9	Disorder in Mn <sub>1-x</sub> AX <sub>n</sub> phases at the atomic scale. Nature Communications, 2019, 10, 622.	5.8	41
10	Initial stages of ion beam-induced phase transformations in Gd <sub>2</sub> O <sub>3</sub> and Lu <sub>2</sub> O <sub>3</sub> . Applied Physics Letters, 2018, 112, 073904.	1.5	2
11	Measurement of UO <sub>2</sub> surface oxidation using grazing-incidence x-ray diffraction: Implications for nuclear forensics. Journal of Nuclear Materials, 2018, 502, 68-75.	1.3	10
12	Radiation-induced disorder in compressed lanthanide zirconates. Physical Chemistry Chemical Physics, 2018, 20, 6187-6197.	1.3	10
13	Phase transformation pathways of ultrafast-laser-irradiated Ln <sub>2</sub> O <sub>3</sub> . Physical Review B, 2018, 97, .	1.1	4
14	A <sub>2</sub> TiO <sub>5</sub> (A = Dy, Gd, Er, Yb) at High Pressure. Inorganic Chemistry, 2018, 57, 2269-2277.	1.9	6
15	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
16	Similar local order in disordered fluorite and aperiodic pyrochlore structures. Acta Materialia, 2018, 144, 60-67.	3.8	60
17	Swift-heavy ion irradiation response and annealing behavior of A <sub>2</sub> TiO <sub>5</sub> (A = Nd, Gd, and Yb). Journal of Solid State Chemistry, 2018, 258, 108-116.	1.4	10
18	Role of the X and n factors in ion-irradiation induced phase transformations of Mn <sub>1-x</sub> AX <sub>n</sub> phases. Acta Materialia, 2018, 144, 432-446.	3.8	21

#	ARTICLE	IF	CITATIONS
19	Grain size effects on irradiated CeO <sub>2</sub> , ThO <sub>2</sub> , and UO <sub>2</sub> . Acta Materialia, 2018, 160, 47-56.	3.8	45
20	Structure and bulk modulus of Ln-doped UO <sub>2</sub> (Ln = La, Nd) at high pressure. Journal of Nuclear Materials, 2017, 490, 28-33.	1.3	11
21	High pressure synthesis of a hexagonal close-packed phase of the high-entropy alloy CrMnFeCoNi. Nature Communications, 2017, 8, 15634.	5.8	241
22	Thermal defect annealing of swift heavy ion irradiated ThO <sub>2</sub> . Nuclear Instruments & Methods in Physics Research B, 2017, 405, 15-21.	0.6	6
23	Pressure-induced structural modifications of rare-earth hafnate pyrochlore. Journal of Physics Condensed Matter, 2017, 29, 255401.	0.7	32
24	Defect accumulation in swift heavy ion-irradiated CeO <sub>2</sub> and ThO <sub>2</sub> . Journal of Materials Chemistry A, 2017, 5, 12193-12201.	5.2	36
25	Lanthanide stannate pyrochlores (Ln <sub>2</sub> Sn <sub>2</sub> O <sub>7</sub> ; Ln = Nd, Gd, Er) at high pressure. Journal of Physics Condensed Matter, 2017, 29, 504005.	0.7	11
26	Policy: Reassess New Mexico's nuclear-waste repository. Nature, 2016, 529, 149-151.	13.7	14
27	Structural response of titanate pyrochlores to swift heavy ion irradiation. Acta Materialia, 2016, 117, 207-215.	3.8	64
28	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
29	Probing disorder in isometric pyrochlore and related complex oxides. Nature Materials, 2016, 15, 507-511.	13.3	164
30	Anisotropic expansion and amorphization of Ga <sub>2</sub> O <sub>3</sub> irradiated with 946 MeV Au ions. Nuclear Instruments & Methods in Physics Research B, 2016, 374, 40-44.	0.6	15
31	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
32	Phase transformations in Ln <sub>2</sub> O <sub>3</sub> materials irradiated with swift heavy ions. Physical Review B, 2015, 92, .	1.1	41
33	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
34	Redox response of actinide materials to highly ionizing radiation. Nature Communications, 2015, 6, 6133.	5.8	72
35	<i>In situ</i> defect annealing of swift heavy ion irradiated CeO <sub>2</sub> and ThO <sub>2</sub> using synchrotron X-ray diffraction and a hydrothermal diamond anvil cell. Journal of Applied Crystallography, 2015, 48, 711-717.	1.9	25
36	Response of Gd <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> and La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> to swift-heavy ion irradiation and annealing. Acta Materialia, 2015, 93, 1-11.	3.8	62

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37	Ultrafast laser and swift heavy ion irradiation: Response of Gd <sub>2</sub> O <sub>3</sub> and ZrO <sub>2</sub> to intense electronic excitation. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	13
38	Swift heavy ion track formation in Gd <sub>2</sub> Zr <sub>2</sub> TiO <sub>7</sub> pyrochlore: Effect of electronic energy loss. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2014, 336, 102-115.	0.6	48
39	Defect accumulation in ThO <sub>2</sub> irradiated with swift heavy ions. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2014, 326, 169-173.	0.6	41
40	Swift heavy ion irradiation-induced amorphization of La <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2014, 326, 145-149.	0.6	25
41	Swift heavy ion-induced phase transformation in Gd <sub>2</sub> O <sub>3</sub> . <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2014, 326, 121-125.	0.6	31
42	Structural response of A <sub>2</sub> TiO <sub>5</sub> (A = La, Nd, Sm, Gd) to swift heavy ion irradiation. <i>Acta Materialia</i> , 2012, 60, 4477-4486.	3.8	42