## Joshua A Hammons

List of Publications by Year in descending order

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567281 345221 1,374 48 15 36 citations g-index h-index papers 48 48 48 1682 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Pore and grain chemistry during sintering of garnet-type Li <sub>6.4</sub> La <sub>3</sub> Zr <sub>1.4</sub> Ta <sub>0.6</sub> O <sub>12</sub> solid-state electrolytes. Journal of Materials Chemistry A, 2022, 10, 9080-9090.	10.3	1
2	Effect of substrate temperature on sputter-deposited boron carbide films. Journal of Applied Physics, 2022, 131, .	2.5	7
3	Distinguishing Gas-Phase and Nanoparticle Contributions to Small-Angle X-ray Scattering in Reacting Aerosol Flows. Journal of Physical Chemistry A, 2022, 126, 3015-3026.	2.5	6
4	Soot-particle core-shell and fractal structures from small-angle X-ray scattering measurements in a flame. Carbon, 2022, 196, 440-456.	10.3	10
5	Enhanced mechanical performance via laser induced nanostructure formation in an additively manufactured lightweight aluminum alloy. Applied Materials Today, 2021, 22, 100972.	4.3	10
6	Submicrosecond Aggregation during Detonation Synthesis of Nanodiamond. Journal of Physical Chemistry Letters, 2021, 12, 5286-5293.	4.6	21
7	Early-Stage Aggregation and Crystalline Interactions of Peptoid Nanomembranes. Journal of Physical Chemistry Letters, 2021, 12, 6126-6133.	4.6	14
8	Manipulating meso-scale solvent structure from Pd nanoparticle deposits in deep eutectic solvents. Journal of Chemical Physics, 2021, 155, 074505.	3.0	7
9	Oblique angle deposition of boron carbide films by magnetron sputtering. Journal of Applied Physics, 2021, 130, .	2.5	8
10	Enhanced thermal coarsening resistance in a nanostructured aluminum-cerium alloy produced by additive manufacturing. Materials and Design, 2021, 209, 109988.	7.0	31
11	He Bubble Concentration, Size and Strain in Implanted Aluminum by SAXS/WAXS. Jom, 2020, 72, 176-186.	1.9	7
12	Detonation-induced transformation of graphite to hexagonal diamond. Physical Review B, 2020, 102, .	3.2	13
13	Controlling interdependent meso-nanosecond dynamics and defect generation in metal 3D printing. Science, 2020, 368, 660-665.	12.6	291
14	Anomalous Anisotropic Nanoparticle Aggregation in Cu <sub>2</sub> (OH) <sub>3</sub> Br Gels. Langmuir, 2020, 36, 8311-8321.	3.5	0
15	Decoupling copolymer, lipid and carbon nanotube interactions in hybrid, biomimetic vesicles. Nanoscale, 2020, 12, 6545-6555.	5.6	5
16	A 3D nm-thin biomimetic membrane for ultimate molecular separation. Materials Horizons, 2020, 7, 2422-2430.	12.2	1
17	Pressure dependence of the laser-metal interaction under laser powder bed fusion conditions probed by in situ X-ray imaging. Additive Manufacturing, 2020, 32, 101084.	3.0	19
18	Observation of Variations in Condensed Carbon Morphology Dependent on Composition B Detonation Conditions. Propellants, Explosives, Pyrotechnics, 2020, 45, 347-355.	1.6	11

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19	Coupling in situ atomic force microscopy (AFM) and ultra-small-angle X-ray scattering (USAXS) to study the evolution of zinc morphology during electrodeposition within an imidazolium based ionic liquid electrolyte. Electrochimica Acta, 2020, 342, 136073.	5.2	8
20	Correlating dynamic microstructure to observed color in electrophoretic displays via <i>in situ</i> small-angle x-ray scattering. Physical Review Materials, 2020, 4, .	2.4	6
21	Resolving Detonation Nanodiamond Size Evolution and Morphology at Sub-Microsecond Timescales during High-Explosive Detonations. Journal of Physical Chemistry C, 2019, 123, 19153-19164.	3.1	18
22	Detonation synthesis of carbon nano-onions via liquid carbon condensation. Nature Communications, 2019, 10, 3819.	12.8	50
23	Ultrafast dynamics of laser-metal interactions in additive manufacturing alloys captured by in situ X-ray imaging. Materials Today Advances, 2019, 1, 100002.	5.2	105
24	The impact of nano-bubbles on the laser performance of hafnia films deposited by oxygen assisted ion beam sputtering method. Applied Physics Letters, 2019, 115, .	3.3	16
25	Extended hierarchical solvent perturbations from curved surfaces of mesoporous silica particles in a deep eutectic solvent. Journal of Colloid and Interface Science, 2018, 520, 81-90.	9.4	15
26	Probing He bubbles in naturally aged and annealed δ-Pu alloys using ultra-small-angle x-ray scattering. Journal of Nuclear Materials, 2018, 498, 505-510.	2.7	4
27	Membranes: Carbon Nanotube Porins in Amphiphilic Block Copolymers as Fully Synthetic Mimics of Biological Membranes (Adv. Mater. 51/2018). Advanced Materials, 2018, 30, 1870392.	21.0	0
28	Carbon Nanotube Porins in Amphiphilic Block Copolymers as Fully Synthetic Mimics of Biological Membranes. Advanced Materials, 2018, 30, e1803355.	21.0	29
29	Ultra-low-density silver aerogels via freeze-substitution. APL Materials, 2018, 6, .	5.1	16
30	Single-bunch imaging of detonation fronts using scattered synchrotron radiation. Journal of Applied Physics, 2018, 123, .	2.5	6
31	Synthesis and synchrotron characterisation of novel dual-template of hydroxyapatite scaffolds with controlled size porous distribution. Materials Letters, 2017, 190, 107-110.	2.6	3
32	Surface Pb Nanoparticle Aggregation, Coalescence and Differential Capacitance in a Deep Eutectic Solvent Using a Simultaneous Sample-Rotated Small Angle X-ray Scattering and Electrochemical Methods Approach. Electrochimica Acta, 2017, 228, 462-473.	5.2	11
33	High performance aluminum–cerium alloys for high-temperature applications. Materials Horizons, 2017, 4, 1070-1078.	12.2	155
34	An ORPâ€EIS approach to study the gas incorporation into aluminum etch films. Surface and Interface Analysis, 2016, 48, 699-705.	1.8	2
35	Supported Silver Nanoparticle and Near-Interface Solution Dynamics in a Deep Eutectic Solvent. Journal of Physical Chemistry C, 2016, 120, 1534-1545.	3.1	23
36	Monitoring Ligandâ€Mediated Growth and Aggregation of Metal Nanoparticles and Nanodendrites by In Situ Synchrotron Scattering Techniques. ChemNanoMat, 2015, 1, 109-114.	2.8	13

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37	Small-Angle X-Ray Scattering of Ionic Liquids. , 2015, , 169-213.		1
38	The Role of Nanocluster Aggregation, Coalescence, and Recrystallization in the Electrochemical Deposition of Platinum Nanostructures. Chemistry of Materials, 2014, 26, 2396-2406.	6.7	58
39	Colorando Auro: contribution to the understanding of a medieval recipe to colour gilded silver plates. Applied Physics A: Materials Science and Processing, 2013, 111, 39-46.	2.3	8
40	Stability, Assembly, and Particle/Solvent Interactions of Pd Nanoparticles Electrodeposited from a Deep Eutectic Solvent. Journal of Physical Chemistry C, 2013, 117, 14381-14389.	3.1	68
41	A Generalized Electrochemical Aggregative Growth Mechanism. Journal of the American Chemical Society, 2013, 135, 11550-11561.	13.7	140
42	Interfacial Phenomena during Salt Layer Formation under High Rate Dissolution Conditions. Journal of Physical Chemistry B, 2013, 117, 6724-6732.	2.6	11
43	In situ study of gas transport through Al(OH)3 gels during AC processing. Electrochimica Acta, 2012, 70, 10-18.	5.2	6
44	In situ synchrotron X-ray micro-tomography study of pitting corrosion in stainless steel. Corrosion Science, 2011, 53, 2684-2687.	6.6	94
45	Multipulse electrodeposition of Ag nanoparticles on HOPG monitored by in-situ by Small-Angle X-ray Scattering. Electrochemistry Communications, 2011, 13, 1320-1323.	4.7	15
46	XANES Study of the Chemistry of Molybdenum in Artificial Corrosion Pits in 316L Stainless Steel. Journal of the Electrochemical Society, 2011, 158, C111.	2.9	13
47	A method to detect retained gas during AC electrograining using in-situ small angle X-ray scattering. Electrochemistry Communications, 2010, 12, 717-719.	4.7	10
48	Small angle X-ray scattering analysis of the effect of cold compaction of Al/MoO <sub>3</sub> thermite composites. Physical Chemistry Chemical Physics, 2008, 10, 193-199.	2.8	8