

Michael H Nielsen

List of Publications by Year in descending order

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Version: 2024-02-01

16
papers

1,487
citations

933447

10
h-index

940533

16
g-index

16
all docs

16
docs citations

16
times ranked

2580
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ TEM imaging of CaCO ₃ nucleation reveals coexistence of direct and indirect pathways. <i>Science</i> , 2014, 345, 1158-1162.	12.6	584
2	Controlling interdependent meso-nanosecond dynamics and defect generation in metal 3D printing. <i>Science</i> , 2020, 368, 660-665.	12.6	291
3	High Surface Area, sp ² -Cross-Linked Three-Dimensional Graphene Monoliths. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 921-925.	4.6	212
4	Ultrafast dynamics of laser-metal interactions in additive manufacturing alloys captured by in situ X-ray imaging. <i>Materials Today Advances</i> , 2019, 1, 100002.	5.2	105
5	Investigating Processes of Nanocrystal Formation and Transformation via Liquid Cell TEM. <i>Microscopy and Microanalysis</i> , 2014, 20, 425-436.	0.4	94
6	Detonation synthesis of carbon nano-onions via liquid carbon condensation. <i>Nature Communications</i> , 2019, 10, 3819.	12.8	50
7	Ultrafast shock synthesis of nanocarbon from a liquid precursor. <i>Nature Communications</i> , 2020, 11, 353.	12.8	33
8	Gold Aerogel Monoliths with Tunable Ultralow Densities. <i>Nano Letters</i> , 2020, 20, 131-135.	9.1	28
9	Submicrosecond Aggregation during Detonation Synthesis of Nanodiamond. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5286-5293.	4.6	21
10	Resolving Detonation Nanodiamond Size Evolution and Morphology at Sub-Microsecond Timescales during High-Explosive Detonations. <i>Journal of Physical Chemistry C</i> , 2019, 123, 19153-19164.	3.1	18
11	Detonation-induced transformation of graphite to hexagonal diamond. <i>Physical Review B</i> , 2020, 102, .	3.2	13
12	Observation of Variations in Condensed Carbon Morphology Dependent on Composition B Detonation Conditions. <i>Propellants, Explosives, Pyrotechnics</i> , 2020, 45, 347-355.	1.6	11
13	Shape-controlled synthesis and <i>in situ</i> characterisation of anisotropic Au nanomaterials using liquid cell transmission electron microscopy. <i>Nanoscale</i> , 2019, 11, 16801-16809.	5.6	9
14	Preparation of Organothiols Self-Assembled Monolayers for Use in Templated Crystallization. <i>Methods in Enzymology</i> , 2013, 532, 209-224.	1.0	6
15	Single-bunch imaging of detonation fronts using scattered synchrotron radiation. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	6
16	Raman signatures of detonation soot. <i>Journal of Raman Spectroscopy</i> , 2022, 53, 1571-1579.	2.5	6