

Elijah Thimsen

List of Publications by Year in descending order

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46
papers

4,771
citations

361413

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h-index

233421

45
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47
all docs

47
docs citations

47
times ranked

7762
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical Structure of the Plasma-Liquid Interface. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1222-1229.	3.1	6
2	Characterization of plasma in RF jet interacting with water: Thomson scattering versus spectral line broadening. <i>Plasma Sources Science and Technology</i> , 2022, 31, 035018.	3.1	6
3	Particle trapping, size-filtering, and focusing in the nonthermal plasma synthesis of sub-10 nanometer particles. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 235202.	2.8	7
4	Plasma parameters and the reduction potential at a plasma-liquid interface. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 14257-14268.	2.8	5
5	Predicting plasma conditions necessary for synthesis of Al_2O_3 nanocrystals. <i>Nanoscale</i> , 2021, 13, 11387-11395.	5.6	4
6	Modeling atomic layer deposition process parameters to achieve dense nanocrystal-based nanocomposites. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021, 39, .	2.1	5
7	Entropy production and chemical reactions in nonequilibrium plasma. <i>AIChE Journal</i> , 2021, 67, e17291.	3.6	6
8	Particle charge distributions in the effluent of a flow-through atmospheric pressure low temperature plasma. <i>Plasma Sources Science and Technology</i> , 2021, 30, 075030.	3.1	15
9	Highly Conductive SbSnO_2 Nanocrystals Synthesized by Dual Nonthermal Plasmas. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 25168-25177.	8.0	18
10	Nonequilibrium plasma aerotaxy of size controlled GaN nanocrystals. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 095201.	2.8	18
11	Superlocal chemical reaction equilibrium in low temperature plasma. <i>AIChE Journal</i> , 2020, 66, e16948.	3.6	6
12	Measurement of sub-2 nm stable clusters during silane pyrolysis in a furnace aerosol reactor. <i>Journal of Chemical Physics</i> , 2020, 152, 024304.	3.0	14
13	Phase mixing in GaSb nanocrystals synthesized by nonequilibrium plasma aerotaxy. <i>Plasma Processes and Polymers</i> , 2020, 17, 1900233.	3.0	4
14	Electrochemical characterization of the plasma-water interface. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 165202.	2.8	7
15	(Invited) Electrochemical Characterization of the Interface between Atmospheric Noble Gas Plasma Jet and Aqueous Solution. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1107-1107.	0.0	0
16	Isolating Organic Half-Reaction Products in Aqueous Solutions Exposed to Nonthermal Plasma. <i>ECS Meeting Abstracts</i> , 2020, MA2020-01, 1127-1127.	0.0	0
17	Highly Uniform Activation of Carbon Fiber Reinforced Thermoplastics by Low-Temperature Plasma. <i>ACS Applied Polymer Materials</i> , 2019, 1, 2638-2648.	4.4	11
18	Nonequilibrium Plasma Aerotaxy of InN Nanocrystals and Their Photonic Properties. <i>Journal of Physical Chemistry C</i> , 2019, 123, 30613-30622.	3.1	13

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19	Aerosol-synthesized siliceous nanoparticles: impact of morphology and functionalization on biodistribution. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 7375-7393.	6.7	5
20	Accessing unconventional biofuels via reactions far from local equilibrium. <i>Fuel</i> , 2018, 226, 472-478.	6.4	7
21	Beyond equilibrium thermodynamics in the low temperature plasma processor. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2018, 36, .	1.2	11
22	In-Flight Size Focusing of Aerosols by a Low Temperature Plasma. <i>Journal of Physical Chemistry C</i> , 2017, 121, 12936-12944.	3.1	20
23	Visualizing Current Flow at the Mesoscale in Disordered Assemblies of Touching Semiconductor Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2017, 121, 15619-15629.	3.1	5
24	Shortwave-infrared (SWIR) emitters for biological imaging: a review of challenges and opportunities. <i>Nanophotonics</i> , 2017, 6, 1043-1054.	6.0	116
25	Contact Radius and the Insulator-Metal Transition in Films Comprised of Touching Semiconductor Nanocrystals. <i>ACS Nano</i> , 2016, 10, 6744-6752.	14.6	25
26	Transparent Conductive Oxide Nanocrystals Coated with Insulators by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2016, 28, 5549-5553.	6.7	39
27	Enthalpy of Formation for Cu ₂ ZnSnS ₄ (CZTS) Calculated from Surface Binding Energies Experimentally Measured by Ion Sputtering. <i>Chemistry of Materials</i> , 2015, 27, 2294-2298.	6.7	22
28	Nonthermal plasma synthesis of metal sulfide nanocrystals from metalorganic vapor and elemental sulfur. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 314004.	2.8	21
29	High electron mobility in thin films formed via supersonic impact deposition of nanocrystals synthesized in nonthermal plasmas. <i>Nature Communications</i> , 2014, 5, 5822.	12.8	77
30	Plasma synthesis of stoichiometric Cu ₂ S nanocrystals stabilized by oleylamine. <i>Chemical Communications</i> , 2014, 50, 8346.	4.1	18
31	Stabilizing Cu ₂ S for Photovoltaics One Atomic Layer at a Time. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 10302-10309.	8.0	51
32	Interfaces and Composition Profiles in Metal-Sulfide Nanolayers Synthesized by Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2013, 25, 313-319.	6.7	37
33	Structural, optical, and electronic stability of copper sulfide thin films grown by atomic layer deposition. <i>Energy and Environmental Science</i> , 2013, 6, 1868.	30.8	91
34	Energy Levels, Electronic Properties, and Rectification in Ultrathin p-NiO Films Synthesized by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2012, 116, 16830-16840.	3.1	88
35	Synthesis and Characterization of High-Photoactivity Electrodeposited Cu ₂ O Solar Absorber by Photoelectrochemistry and Ultrafast Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7341-7350.	3.1	305
36	Atomic Layer Deposition of the Quaternary Chalcogenide Cu ₂ ZnSnS ₄ . <i>Chemistry of Materials</i> , 2012, 24, 3188-3196.	6.7	75

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37	Plasmonic solar water splitting. Energy and Environmental Science, 2012, 5, 5133-5146.	30.8	766
38	Single-Step Aerosol Synthesis and Deposition of Au Nanoparticles with Controlled Size and Separation Distributions. Chemistry of Materials, 2011, 23, 4612-4617.	6.7	17
39	Influence of Plasmonic Au Nanoparticles on the Photoactivity of Fe ₂ O ₃ Electrodes for Water Splitting. Nano Letters, 2011, 11, 35-43.	9.1	428
40	Ion Exchange in Ultrathin Films of Cu ₂ S and ZnS under Atomic Layer Deposition Conditions. Chemistry of Materials, 2011, 23, 4411-4413.	6.7	49
41	Highly active oxide photocathode for photoelectrochemical water reduction. Nature Materials, 2011, 10, 456-461.	27.5	1,894
42	Aerosol-Chemical Vapor Deposition Method For Synthesis of Nanostructured Metal Oxide Thin Films With Controlled Morphology. Journal of Physical Chemistry Letters, 2010, 1, 249-253.	4.6	87
43	Predicting the Band Structure of Mixed Transition Metal Oxides: Theory and Experiment. Journal of Physical Chemistry C, 2009, 113, 2014-2021.	3.1	116
44	Impact of Different Electrolytes on Photocatalytic Water Splitting. Journal of the Electrochemical Society, 2009, 156, H346.	2.9	39
45	Nanostructured TiO ₂ Films with Controlled Morphology Synthesized in a Single Step Process: Performance of Dye-Sensitized Solar Cells and Photo Watersplitting. Journal of Physical Chemistry C, 2008, 112, 4134-4140.	3.1	142
46	Nanostructured photoactive films synthesized by a flame aerosol reactor. AIChE Journal, 2007, 53, 1727-1735.	3.6	74