

# Chi-Chin Wu

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

346  
citations

1040056

9  
h-index

839539

18  
g-index

22  
all docs

22  
docs citations

22  
times ranked

316  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ignition and combustion of Perfluoroalkyl-functionalized aluminum nanoparticles and nanothermite. <i>Combustion and Flame</i> , 2022, 242, 112170.	5.2	18
2	Enhanced Interfacial Adhesion of Nylon 66 to Epoxy Resin EPON 825 by Non-thermal Atmospheric Pressure Dielectric Barrier Discharge Plasmas. <i>Coatings</i> , 2022, 12, 919.	2.6	1
3	Hydration of alumina (Al <sub>2</sub> O <sub>3</sub> ) toward advancing aluminum particles for energy generation applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 652, 129740.	4.7	2
4	Advanced nanoscale characterization of aluminum nanoparticles with modified surface morphology via atmospheric helium and carbon monoxide plasmas. <i>Journal of Applied Physics</i> , 2021, 129, .	2.5	7
5	Inductively coupled nonthermal plasma synthesis of aluminum nanoparticles. <i>Nanotechnology</i> , 2021, 32, .	2.6	10
6	Chemically driven energetic molecular ferroelectrics. <i>Nature Communications</i> , 2021, 12, 5696.	12.8	6
7	Material Characterization of Plasma-Treated Aluminum Particles via Different Gases. <i>MRS Advances</i> , 2019, 4, 1589-1595.	0.9	7
8	Effect of Hydration on Promoting Oxidative Reactions with Aluminum Oxide and Oxyhydroxide Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15017-15026.	3.1	8
9	Plasma surface treatment of aluminum nanoparticles for energetic material applications. <i>Combustion and Flame</i> , 2019, 206, 211-213.	5.2	40
10	Optimizing the Performance of Aluminized Explosives: Laser-Based Measurements of Energy Release and Spectroscopic Diagnostics. , 2019, , .		3
11	Estimating the Relative Energy Content of Reactive Materials Using Nanosecond-Pulsed Laser Ablation. <i>MRS Advances</i> , 2018, 3, 875-886.	0.9	19
12	Energetic Performance of Optically Activated Aluminum/Graphene Oxide Composites. <i>ACS Nano</i> , 2018, 12, 11366-11375.	14.6	99
13	Improving the Explosive Performance of Aluminum Nanoparticles with Aluminum Iodate Hexahydrate (AlH). <i>Scientific Reports</i> , 2018, 8, 8036.	3.3	42
14	On the structure and impurities of a nominally homologous set of detonation nanodiamonds. <i>Diamond and Related Materials</i> , 2017, 76, 157-170.	3.9	5
15	Replacing the Al <sub>2</sub> O <sub>3</sub> Shell on Al Particles with an Oxidizing Salt, Aluminum Iodate Hexahydrate. Part I: Reactivity. <i>Journal of Physical Chemistry C</i> , 2017, 121, 23184-23191.	3.1	26
16	Binary dislocation junction formation and strength in hexagonal close-packed crystals. <i>International Journal of Plasticity</i> , 2016, 79, 176-195.	8.8	5
17	Cross slip of dislocation loops in GaN under shear. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014, 11, 432-436.	0.8	5
18	The strength of binary junctions in hexagonal close-packed crystals. <i>Acta Materialia</i> , 2013, 61, 3422-3431.	7.9	16

#	ARTICLE	IF	CITATIONS
19	Dislocation Dynamics Simulations of Junctions in Hexagonal Close-Packed Crystals. Materials Research Society Symposia Proceedings, 2012, 1424, 67.	0.1	2
20	Nanoscale mechanisms of misfit dislocation propagation in undulated Si <sub>1-x</sub> Gex/Si(100) epitaxial thin films. Nanotechnology, 2007, 18, 165705.	2.6	4
21	Iron sulfide films via Fe <sub>2</sub> (CO) <sub>6</sub> ( $\frac{1}{4}$ -S <sub>2</sub> ) as a MOCVD single source precursor. Inorganica Chimica Acta, 2002, 334, 276-282.	2.4	19
22	Development of environmental policy, objectives, and targets. International Journal of Sustainable Development and World Ecology, 2000, 7, 357-361.	5.9	2