

# Abraham Wolcott

## List of Publications by Year in descending order

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28  
papers

3,636  
citations

361045

20  
h-index

610482

24  
g-index

29  
all docs

29  
docs citations

29  
times ranked

6053  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogen-Doped ZnO Nanowire Arrays for Photoelectrochemical Water Splitting. Nano Letters, 2009, 9, 2331-2336.	4.5	1,071
2	Photoelectrochemical Study of Nanostructured ZnO Thin Films for Hydrogen Generation from Water Splitting. Advanced Functional Materials, 2009, 19, 1849-1856.	7.8	436
3	Photoelectrochemical Water Splitting Using Dense and Aligned TiO <sub>2</sub> Nanorod Arrays. Small, 2009, 5, 104-111.	5.2	380
4	Unique Gold Nanoparticle Aggregates as a Highly Active Surface-Enhanced Raman Scattering Substrate. Journal of Physical Chemistry B, 2004, 108, 19191-19197.	1.2	308
5	Silica-Coated CdTe Quantum Dots Functionalized with Thiols for Bioconjugation to IgG Proteins. Journal of Physical Chemistry B, 2006, 110, 5779-5789.	1.2	258
6	Nitrogen-Doped and CdSe Quantum-Dot-Sensitized Nanocrystalline TiO <sub>2</sub> Films for Solar Energy Conversion Applications. Journal of Physical Chemistry C, 2008, 112, 1282-1292.	1.5	192
7	Determination of the Exciton Binding Energy in CdSe Quantum Dots. ACS Nano, 2009, 3, 325-330.	7.3	151
8	Synthesis and Characterization of Ultrathin WO <sub>3</sub> Nanodisks Utilizing Long-Chain Poly(ethylene) Terephthalate. Journal of Physical Chemistry C, 2010, 114, 182-187.	1.2	132
9	Quasi-core-shell TiO <sub>2</sub> /WO <sub>3</sub> and WO <sub>3</sub> /TiO <sub>2</sub> nanorod arrays fabricated by glancing angle deposition for solar water splitting. Journal of Materials Chemistry, 2011, 21, 10792.	6.7	127
10	Distance-Dependent Fluorescence Quenching and Binding of CdSe Quantum Dots by Functionalized Nitroxide Radicals. Journal of Physical Chemistry C, 2010, 114, 7793-7805.	1.5	80
11	Modulation of nitrogen vacancy charge state and fluorescence in nanodiamonds using electrochemical potential. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3938-3943.	3.3	77
12	Anomalously Large Polarization Effect Responsible for Excitonic Red Shifts in PbSe Quantum Dot Solids. Journal of Physical Chemistry Letters, 2011, 2, 795-800.	2.1	72
13	Surface Structure of Aerobically Oxidized Diamond Nanocrystals. Journal of Physical Chemistry C, 2014, 118, 26695-26702.	1.5	54
14	Excitation-Wavelength Dependence of Fluorescence Intermittency in CdSe Nanorods. ACS Nano, 2008, 2, 2143-2153.	7.3	53
15	Photoluminescence spectroscopy of bioconjugated CdSe/ZnS quantum dots. Applied Physics Letters, 2007, 90, 263112.	1.5	47
16	Direct Mapping of Hot-Electron Relaxation and Multiplication Dynamics in PbSe Quantum Dots. Nano Letters, 2012, 12, 1588-1591.	4.5	41
17	CdSe Quantum Rod Formation Aided By In Situ TOPO Oxidation. Chemistry of Materials, 2010, 22, 2814-2821.	3.2	33
18	Ligand-Mediated Modification of the Electronic Structure of CdSe Quantum Dots. Nano Letters, 2012, 12, 2763-2767.	4.5	33

#	ARTICLE	IF	CITATIONS
19	Surface functionality and formation mechanisms of carbon and graphene quantum dots. <i>Diamond and Related Materials</i> , 2020, 110, 108101.	1.8	26
20	Time-resolved energy transfer from single chloride-terminated nanocrystals to graphene. <i>Applied Physics Letters</i> , 2014, 104, 171101.	1.5	23
21	Reactive ion etching: Optimized diamond membrane fabrication for transmission electron microscopy. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013, 31, 06FF01.	0.6	14
22	Scanning photoluminescent spectroscopy of bioconjugated quantum dots. <i>Superlattices and Microstructures</i> , 2009, 45, 240-248.	1.4	11
23	Ultrafast lattice dynamics in lead selenide quantum dot induced by laser excitation. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	10
24	The role of reductant oxidation state in the formation and function of gold nanoparticle aggregates for SERS applications. , 2004, 5513, 213.		3
25	Metastable Brominated Nanodiamond Surface Enables Room Temperature and Catalysis-Free Amine Chemistry. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 1147-1158.	2.1	3
26	Electrochemical potential control of charge state and fluorescence of nitrogen vacancy centers in nanodiamonds. , 2015, , .		1
27	Biologically Engineered Quantum Dots for Biomedical Applications. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1095, 80501.	0.1	0
28	Multidimensional Nanostructures for Solar Water Splitting: Synthesis, Properties, and Applications. , 0, , 459-505.		0