

# Wei David Wei

## List of Publications by Year in descending order

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27  
papers

2,494  
citations

471509

17  
h-index

526287

27  
g-index

29  
all docs

29  
docs citations

29  
times ranked

4227  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface-Plasmon-Driven Hot Electron Photochemistry. <i>Chemical Reviews</i> , 2018, 118, 2927-2954.	47.7	966
2	Prolonged Hot Electron Dynamics in Plasmonic Metal/Semiconductor Heterostructures with Implications for Solar Photocatalysis. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7887-7891.	13.8	349
3	Surface Plasmon-Driven Water Reduction: Gold Nanoparticle Size Matters. <i>Journal of the American Chemical Society</i> , 2014, 136, 9842-9845.	13.7	301
4	Polyvinylpyrrolidone-induced anisotropic growth of gold nanoprisms in plasmon-driven synthesis. <i>Nature Materials</i> , 2016, 15, 889-895.	27.5	239
5	Manipulating Atomic Structures at the Au/TiO <sub>2</sub> Interface for O <sub>2</sub> Activation. <i>Journal of the American Chemical Society</i> , 2020, 142, 6456-6460.	13.7	79
6	Surface Plasmon Mediated Chemical Solution Deposition of Gold Nanoparticles on a Nanostructured Silver Surface at Room Temperature. <i>Journal of the American Chemical Society</i> , 2013, 135, 38-41.	13.7	60
7	Plasmonic Photoelectrochemistry: In View of Hot Carriers. <i>Advanced Materials</i> , 2021, 33, e2006654.	21.0	54
8	Modulating multi-hole reaction pathways for photoelectrochemical water oxidation on gold nanocatalysts. <i>Energy and Environmental Science</i> , 2020, 13, 1501-1508.	30.8	47
9	A Facile Solvothermal Synthesis of Octahedral Fe <sub>3</sub> O <sub>4</sub> Nanoparticles. <i>Small</i> , 2015, 11, 2649-2653.	10.0	45
10	Ultrathin 2D Cu-porphyrin MOF nanosheets as a heterogeneous catalyst for styrene oxidation. <i>Materials Chemistry Frontiers</i> , 2019, 3, 1580-1585.	5.9	45
11	Plasmonic Nickel-TiO <sub>2</sub> Heterostructures for Visible-Light-Driven Photochemical Reactions. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6038-6041.	13.8	44
12	Cooperation of Hot Holes and Surface Adsorbates in Plasmon-Driven Anisotropic Growth of Gold Nanostars. <i>Journal of the American Chemical Society</i> , 2020, 142, 10921-10925.	13.7	44
13	Dose-rate-dependent damage of cerium dioxide in the scanning transmission electron microscope. <i>Ultramicroscopy</i> , 2016, 170, 1-9.	1.9	35
14	Near-IR-induced dissociation of thermally-sensitive star polymers. <i>Chemical Science</i> , 2017, 8, 1815-1821.	7.4	32
15	Elucidating the Sole Contribution from Electromagnetic Near-Fields in Plasmon-Enhanced Cu <sub>2</sub> O Photocathodes. <i>Advanced Energy Materials</i> , 2016, 6, 1501250.	19.5	31
16	Regulating Electronic Status of Platinum Nanoparticles by Metal-Organic Frameworks for Selective Catalysis. <i>CCS Chemistry</i> , 2021, 3, 1607-1614.	7.8	21
17	Plasmonic metal-semiconductor heterostructures for hot-electron-driven photochemistry. <i>MRS Bulletin</i> , 2020, 45, 37-42.	3.5	14
18	Oxidation-state sensitive imaging of cerium dioxide by atomic-resolution low-angle annular dark field scanning transmission electron microscopy. <i>Ultramicroscopy</i> , 2016, 162, 52-60.	1.9	11

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19	An in situ approach for facile fabrication of robust and scalable SERS substrates. <i>Nanoscale</i> , 2014, 6, 7232-7236.	5.6	10
20	Solvent Control of Surface Plasmon-Mediated Chemical Deposition of Au Nanoparticles from Alkylgold Phosphine Complexes. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 13384-13394.	8.0	8
21	NanoSIMS imaging alteration layers of a leached SON68 glass via a FIB-made wedged crater. <i>Surface and Interface Analysis</i> , 2014, 46, 233-237.	1.8	6
22	Persistent Photomagnetism in Superparamagnetic Iron Oxide Nanoparticles. <i>Advanced Electronic Materials</i> , 2018, 4, 1700661.	5.1	5
23	The effect of surface electronic structures of Au/TiO <sub>2</sub> on sonophotochemical reactions. <i>Chinese Chemical Letters</i> , 2018, 29, 783-786.	9.0	4
24	Three-Dimensional Mass Spectrometric Imaging of Biological Structures Using a Vacuum-Compatible Microfluidic Device. <i>Analytical Chemistry</i> , 2020, 92, 13785-13793.	6.5	3
25	Plasmonic Nickel-TiO <sub>2</sub> Heterostructures for Visible-Light-Driven Photochemical Reactions. <i>Angewandte Chemie</i> , 2019, 131, 6099-6102.	2.0	2
26	Experimental Insights into the Growth of Single Truncated Anatase Bipyramids. <i>Chemistry - A European Journal</i> , 2019, 25, 993-996.	3.3	2
27	Low Angle Annular Dark Field Scanning Transmission Electron Microscopy is Sensitive to Oxidation State in CeO <sub>2</sub> Nanoparticles. <i>Microscopy and Microanalysis</i> , 2015, 21, 239-240.	0.4	0