Yu Wang

List of Publications by Year
in descending order

22	387	1163117 8	752698 20
papers	citations	h-index	g-index

22	22	22	567
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Plasma methane conversion in the presence of carbon dioxide using dielectric-barrier discharges. Fuel Processing Technology, 2003, 83, 101-109.	7.2	139
2	Monitoring Local Electric Fields at Electrode Surfaces Using Surface Enhanced Raman Scattering-Based Stark-Shift Spectroscopy during Hydrogen Evolution Reactions. ACS Applied Materials & Interfaces, 2018, 10, 33678-33683.	8.0	43
3	Plasmon-Resonant Enhancement of Photocatalysis on Monolayer WSe₂. ACS Photonics, 2019, 6, 787-792.	6.6	43
4	Highâ€Performance Flexible Nanostructured Silicon Solar Modules with Plasmonically Engineered Upconversion Medium. Advanced Energy Materials, 2015, 5, 1500761.	19.5	30
5	In Situ Investigation of Ultrafast Dynamics of Hot Electron-Driven Photocatalysis in Plasmon-Resonant Grating Structures. Journal of the American Chemical Society, 2022, 144, 3517-3526.	13.7	20
6	Ultrafast Dynamics of Hot Electrons in Nanostructures: Distinguishing the Influence on Interband and Plasmon Resonances. ACS Photonics, 2019, 6, 2295-2302.	6.6	18
7	Hot electron-driven photocatalysis and transient absorption spectroscopy in plasmon resonant grating structures. Faraday Discussions, 2019, 214, 325-339.	3.2	17
8	Hot Electron Driven Photocatalysis on Plasmon-Resonant Grating Nanostructures. ACS Applied Materials & Interfaces, 2020, 12, 17459-17465.	8.0	12
9	Monitoring Reaction Intermediates in Plasma-Driven SO₂, NO, and NO₂ Remediation Chemistry Using In Situ SERS Spectroscopy. Analytical Chemistry, 2021, 93, 6421-6427.	6.5	8
10	Measuring Local Electric Fields and Local Charge Densities at Electrode Surfaces Using Graphene-Enhanced Raman Spectroscopy (GERS)-Based Stark-Shifts. ACS Applied Materials & Interfaces, 2019, 11, 36252-36258.	8.0	7
11	Stacking Independence and Resonant Interlayer Excitation of Monolayer WSe₂/MoSe₂ Heterostructures for Photocatalytic Energy Conversion. ACS Applied Nano Materials, 2020, 3, 1175-1181.	5.0	7
12	Nanoparticle-Enhanced Plasma Discharge Using Nanosecond High-Voltage Pulses. Journal of Physical Chemistry C, 2020, 124, 7487-7491.	3.1	7
13	CO₂ Reduction to Higher Hydrocarbons by Plasma Discharge in Carbonated Water. ACS Energy Letters, 2021, 6, 3924-3930.	17.4	7
14	Enhanced Low-Temperature Thermoelectric Performance in (PbSe)_{1+Î´}(VSe₂)₁ Heterostructures due to Highly Correlated Electrons in Charge Density Waves. Nano Letters, 2020, 20, 8008-8014.	9.1	6
15	Enhanced Plasma Generation from Metal Nanostructures via Photoexcited Hot Electrons. Journal of Physical Chemistry C, 2021, 125, 6800-6804.	3.1	6
16	Monitoring Local Electric Fields using Stark Shifts on Napthyl Nitrile-Functionalized Silicon Photoelectrodes. Journal of Physical Chemistry C, 2020, 124, 17000-17005.	3.1	4
17	Hot Electron Plasmon-Resonant Grating Structures for Enhanced Photochemistry: A Theoretical Study. Crystals, 2021, 11, 118.	2.2	4
18	Au Nanoparticle Enhancement of Plasma-Driven Methane Conversion into Higher Order Hydrocarbons via Hot Electrons. ACS Applied Nano Materials, 2020, 3, 12388-12393.	5.0	3

#	Article	IF	Citations
19	Flexible Photovoltaic Devices: Highâ€Performance Flexible Nanostructured Silicon Solar Modules with Plasmonically Engineered Upconversion Medium (Adv. Energy Mater. 21/2015). Advanced Energy Materials, 2015, 5, .	19.5	2
20	Formation of Brightly Luminescent MoS₂ Nanoislands from Multilayer Flakes via Plasma Treatment and Laser Exposure. ACS Omega, 2020, 5, 20543-20547.	3.5	2
21	Broadband electroluminescence from reverse breakdown in individual suspended carbon nanotube pn-junctions. Nano Research, 2020, 13, 2857-2861.	10.4	1
22	Auger Suppression of Incandescence in Individual Suspended Carbon Nanotube pn-Junctions. ACS Applied Materials & Interfaces, 2020, 12, 11907-11912.	8.0	1