

# Angel T Garcia-Esparza

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

3,384  
citations

430754

18  
h-index

526166

27  
g-index

27  
all docs

27  
docs citations

27  
times ranked

6155  
citing authors

#	ARTICLE	IF	CITATIONS
1	Insight on Tafel slopes from a microkinetic analysis of aqueous electrocatalysis for energy conversion. <i>Scientific Reports</i> , 2015, 5, 13801.	1.6	2,017
2	Cu-Sn Bimetallic Catalyst for Selective Aqueous Electroreduction of CO <sub>2</sub> to CO. <i>ACS Catalysis</i> , 2016, 6, 2842-2851.	5.5	380
3	Tungsten Carbide Nanoparticles as Efficient Cocatalysts for Photocatalytic Overall Water Splitting. <i>ChemSusChem</i> , 2013, 6, 168-181.	3.6	190
4	An Oxygen-Tolerant Hydrogen Evolution Catalyst Coated by a Molybdenum-Based Layer for Overall Water Splitting. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5780-5784.	7.2	106
5	Synthesis of tantalum carbide and nitride nanoparticles using a reactive mesoporous template for electrochemical hydrogen evolution. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12606.	5.2	72
6	Exposed Equatorial Positions of Metal Centers via Sequential Ligand Elimination and Installation in MOFs. <i>Journal of the American Chemical Society</i> , 2018, 140, 10814-10819.	6.6	70
7	A simplified theoretical guideline for overall water splitting using photocatalyst particles. <i>Journal of Materials Chemistry A</i> , 2016, 4, 2894-2908.	5.2	67
8	Catalytic consequences of ultrafine Pt clusters supported on SrTiO <sub>3</sub> for photocatalytic overall water splitting. <i>Journal of Catalysis</i> , 2019, 376, 180-190.	3.1	67
9	Mechanistic Switching by Hydronium Ion Activity for Hydrogen Evolution and Oxidation over Polycrystalline Platinum Disk and Platinum/Carbon Electrodes. <i>ChemElectroChem</i> , 2014, 1, 1497-1507.	1.7	46
10	Photoelectrochemical and electrocatalytic properties of thermally oxidized copper oxide for efficient solar fuel production. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7389-7401.	5.2	43
11	Photophysical Properties of SrTaO <sub>2</sub> N Thin Films and Influence of Anion Ordering: A Joint Theoretical and Experimental Investigation. <i>Chemistry of Materials</i> , 2017, 29, 3989-3998.	3.2	37
12	Operando Study of Thermal Oxidation of Monolayer MoS <sub>2</sub> . <i>Advanced Science</i> , 2021, 8, 2002768.	5.6	35
13	Efficient electrochemical water oxidation in neutral and near-neutral systems with a nanoscale silver-oxide catalyst. <i>Nanoscale</i> , 2016, 8, 15033-15040.	2.8	31
14	Operando Elucidation on the Working State of Immobilized Fluorinated Iron Porphyrin for Selective Aqueous Electroreduction of CO <sub>2</sub> to CO. <i>ACS Catalysis</i> , 2021, 11, 6499-6509.	5.5	27
15	A versatile Johansson-type tender x-ray emission spectrometer. <i>Review of Scientific Instruments</i> , 2020, 91, 033101.	0.6	26
16	Resolving structures of transition metal complex reaction intermediates with femtosecond EXAFS. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2660-2666.	1.3	21
17	Tethering Metal Ions to Photocatalyst Particulate Surfaces by Bifunctional Molecular Linkers for Efficient Hydrogen Evolution. <i>ChemSusChem</i> , 2014, 7, 2575-2583.	3.6	19
18	Contribution of electrolyte in nanoscale electrolysis of pure and buffered water by particulate photocatalysis. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2044-2052.	2.5	18

#	ARTICLE	IF	CITATIONS
19	Revealing the bonding of solvated Ru complexes with valence-to-core resonant inelastic X-ray scattering. <i>Chemical Science</i> , 2021, 12, 3713-3725.	3.7	17
20	Local Structure of Sulfur Vacancies on the Basal Plane of Monolayer MoS <sub>2</sub> . <i>ACS Nano</i> , 2022, 16, 6725-6733.	7.3	17
21	Base-Accelerated Degradation of Nanosized Platinum Electrocatalysts. <i>ACS Catalysis</i> , 2021, 11, 9904-9915.	5.5	14
22	Transient Potassium Peroxide Species in Highly Selective Oxidative Coupling of Methane over an Unmolten K <sub>2</sub> WO <sub>4</sub> /SiO <sub>2</sub> Catalyst Revealed by In Situ Characterization. <i>ACS Catalysis</i> , 2021, 11, 14237-14248.	5.5	14
23	An Oxygen-insensitive Hydrogen Evolution Catalyst Coated by a Molybdenum-Based Layer for Overall Water Splitting. <i>Angewandte Chemie</i> , 2017, 129, 5874-5878.	1.6	13
24	Full <i>in silico</i> DFT characterization of lanthanum and yttrium based oxynitride semiconductors for solar fuels. <i>Journal of Materials Chemistry C</i> , 2019, 7, 1612-1621.	2.7	11
25	Electrodeposited Sn-Cu@Sn dendrites for selective electrochemical CO <sub>2</sub> reduction to formic acid. <i>Nanoscale</i> , 2022, 14, 9297-9303.	2.8	10
26	Effect of doping TiO <sub>2</sub> with Mn for electrocatalytic oxidation in acid and alkaline electrolytes. <i>Energy Advances</i> , 2022, 1, 357-366.	1.4	4