

Ioannis Zegkinoglou

List of Publications by Year in descending order

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50
papers

3,948
citations

201674

27
h-index

197818

49
g-index

51
all docs

51
docs citations

51
times ranked

6383
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly selective plasma-activated copper catalysts for carbon dioxide reduction to ethylene. Nature Communications, 2016, 7, 12123.	12.8	896
2	In-situ structure and catalytic mechanism of NiFe and CoFe layered double hydroxides during oxygen evolution. Nature Communications, 2020, 11, 2522.	12.8	594
3	Plasma-Activated Copper Nanocube Catalysts for Efficient Carbon Dioxide Electroreduction to Hydrocarbons and Alcohols. ACS Nano, 2017, 11, 4825-4831.	14.6	372
4	Orbital reflectometry of oxide heterostructures. Nature Materials, 2011, 10, 189-193.	27.5	215
5	Enhanced Carbon Dioxide Electroreduction to Carbon Monoxide over Defect-Rich Plasma-Activated Silver Catalysts. Angewandte Chemie - International Edition, 2017, 56, 11394-11398.	13.8	180
6	Operando Evolution of the Structure and Oxidation State of Size-Controlled Zn Nanoparticles during CO ₂ Electroreduction. Journal of the American Chemical Society, 2018, 140, 9383-9386.	13.7	152
7	Titanium incorporation into hematite photoelectrodes: theoretical considerations and experimental observations. Energy and Environmental Science, 2014, 7, 3100-3121.	30.8	118
8	Field-induced linear magnetoelastic coupling in multiferroic TbMnO ₃ . Physical Review B, 2006, 73, .	3.2	113
9	Concentration and chemical-state profiles at heterogeneous interfaces with sub-nm accuracy from standing-wave ambient-pressure photoemission. Nature Communications, 2014, 5, 5441.	12.8	100
10	Aqueous solution/metal interfaces investigated in operando by photoelectron spectroscopy. Faraday Discussions, 2015, 180, 35-53.	3.2	99
11	Orbital Ordering Transition in Ca ₂ RuO ₄ Observed with Resonant X-Ray Diffraction. Physical Review Letters, 2005, 95, 136401.	7.8	78
12	Operando high-pressure investigation of size-controlled CuZn catalysts for the methanol synthesis reaction. Nature Communications, 2021, 12, 1435.	12.8	62
13	Selective 2-Propanol Oxidation over Unsupported Co ₃ O ₄ Spinel Nanoparticles: Mechanistic Insights into Aerobic Oxidation of Alcohols. ACS Catalysis, 2019, 9, 5974-5985.	11.2	61
14	Enhanced Carbon Dioxide Electroreduction to Carbon Monoxide over Defect-Rich Plasma-Activated Silver Catalysts. Angewandte Chemie, 2017, 129, 11552-11556.	2.0	58
15	Direct Mapping of Band Positions in Doped and Undoped Hematite during Photoelectrochemical Water Splitting. Journal of Physical Chemistry Letters, 2017, 8, 5579-5586.	4.6	53
16	Operando Phonon Studies of the Protonation Mechanism in Highly Active Hydrogen Evolution Reaction Pentlandite Catalysts. Journal of the American Chemical Society, 2017, 139, 14360-14363.	13.7	53
17	On the Interfacial Electronic Structure Origin of Efficiency Enhancement in Hematite Photoanodes. Journal of Physical Chemistry C, 2012, 116, 22780-22785.	3.1	46
18	Attachment of Protoporphyrin Dyes to Nanostructured ZnO Surfaces: Characterization by Near Edge X-ray Absorption Fine Structure Spectroscopy. Journal of Physical Chemistry C, 2011, 115, 18195-18201.	3.1	41

#	ARTICLE	IF	CITATIONS
19	Highly active single-layer MoS ₂ catalysts synthesized by swift heavy ion irradiation. <i>Nanoscale</i> , 2018, 10, 22908-22916.	5.6	39
20	Surface Segregation in CuNi Nanoparticle Catalysts During CO ₂ Hydrogenation: The Role of CO in the Reactant Mixture. <i>Journal of Physical Chemistry C</i> , 2019, 123, 8421-8428.	3.1	38
21	Spectroscopy of Donor-Acceptor Porphyrins for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013, 117, 13357-13364.	3.1	36
22	Melting of incommensurate-ferroelectric phase with magnetic field in multiferroic TbMnO ₃ . <i>Physical Review B</i> , 2007, 75, .	3.2	33
23	Optical response of ferromagnetic $YTiO_3$ studied by spectral ellipsometry. <i>Physical Review B</i> , 2007, 76, .	3.2	32
24	Oxygen Superstructures Throughout the Phase Diagram of (Y,Ca)Ba ₂ Cu ₃ O _{6+x} . <i>Physical Review Letters</i> , 2004, 93, 157007.	7.8	31
25	On the reversible deactivation of cobalt ferrite spinel nanoparticles applied in selective 2-propanol oxidation. <i>Journal of Catalysis</i> , 2020, 382, 57-68.	6.2	31
26	Sub-nanosecond time-resolved ambient-pressure X-ray photoelectron spectroscopy setup for pulsed and constant wave X-ray light sources. <i>Review of Scientific Instruments</i> , 2014, 85, 093102.	1.3	30
27	Capturing interfacial photoelectrochemical dynamics with picosecond time-resolved X-ray photoelectron spectroscopy. <i>Faraday Discussions</i> , 2014, 171, 219-241.	3.2	28
28	Magnetic Structure of $RuSr_2GdCu_8O_{26}$ Determined by Resonant X-Ray Diffraction. <i>Physical Review Letters</i> , 2009, 102, 037205.	7.8	26
29	Operando NRIXS and XAFS Investigation of Segregation Phenomena in Fe-Cu and Fe-Ag Nanoparticle Catalysts during CO ₂ Electroreduction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22667-22674.	13.8	26
30	Lattice dynamical signature of charge density wave formation in underdoped YBa ₂ Cu ₃ O _{6+x} . <i>Physical Review B</i> , 2013, 88, .	3.2	25
31	Magnetic structure and orbital state of Ca ₃ Ru ₂ O ₇ investigated by resonant x-ray diffraction. <i>Physical Review B</i> , 2008, 77, .	3.2	24
32	Influence of Axial and Peripheral Ligands on the Electronic Structure of Titanium Phthalocyanines. <i>Journal of Physical Chemistry C</i> , 2013, 117, 4410-4420.	3.1	24
33	Magnetic-field-induced transitions in multiferroic $TbMnO_3$ by resonant and nonresonant x-ray diffraction. <i>Physical Review B</i> , 2008, 78, .	3.2	23
34	Probing the Dynamic Structure and Chemical State of Au Nanocatalysts during the Electrochemical Oxidation of 2-Propanol. <i>ACS Catalysis</i> , 2016, 6, 3396-3403.	11.2	22
35	X-Ray Spectroscopic Characterization of BaO, Ba(OH) ₂ , BaCO ₃ , and Ba(NO ₃) ₂ . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2018, 225, 55-61.	1.7	22
36	Electronic Structure of Diamond Surfaces Functionalized by Ru(tpy) ₂ . <i>Journal of Physical Chemistry C</i> , 2012, 116, 13877-13883.	3.1	21

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37	Excited-State Charge Distribution of a Donor–Acceptor Zn Porphyrin Probed by N K-Edge Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1182-1188.	4.6	19
38	On the orbital anisotropy in hematite nanorod-based photoanodes. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13483.	2.8	18
39	Segregation Phenomena in Size-Selected Bimetallic CuNi Nanoparticle Catalysts. <i>Journal of Physical Chemistry B</i> , 2018, 122, 919-926.	2.6	18
40	Design of solar cell materials via soft X-ray spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 190, 2-11.	1.7	15
41	Electronic structure of Fe- vs. Ru-based dye molecules. <i>Journal of Chemical Physics</i> , 2013, 138, 044709.	3.0	13
42	Electronic superlattice revealed by resonant scattering from random impurities in Sr ₃ Ru ₂ O ₇ . <i>Scientific Reports</i> , 2013, 3, 2299.	3.3	10
43	Boron Doped diamond films as electron donors in photovoltaics: An X-ray absorption and hard X-ray photoemission study. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	7
44	Crystallographic Orientation Dependence of Surface Segregation and Alloying on PdCu Catalysts for CO ₂ Hydrogenation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2570-2575.	4.6	7
45	Tracking the phase changes in micelle-based NiGa nanocatalysts for methanol synthesis under activation and working conditions. <i>Journal of Catalysis</i> , 2022, 405, 183-198.	6.2	7
46	Dielectric And Hydration Properties Of Segmental Polyurethanes. <i>Materials Research Innovations</i> , 2004, 8, 134-135.	2.3	2
47	Operando NRIXS and XAFS Investigation of Segregation Phenomena in Fe–Cu and Fe–Ag Nanoparticle Catalysts during CO ₂ Electroreduction. <i>Angewandte Chemie</i> , 2020, 132, 22856-22863.	2.0	2
48	Toward Ultrafast In Situ X-ray Studies of Interfacial Photoelectrochemistry. <i>Springer Proceedings in Physics</i> , 2015, , 325-328.	0.2	2
49	Synchrotron-based spectroscopy for solar energy conversion. <i>Proceedings of SPIE</i> , 2015, , .	0.8	1
50	X-RAY SCATTERING STUDIES OF 4D- AND 5D-ELECTRON TRANSITION METAL OXIDES. , 2013, , 43-98.		0