Ioannis Zegkinoglou

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2922665/publications.pdf

Version: 2024-02-01

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	Tracking the phase changes in micelle-based NiGa nanocatalysts for methanol synthesis under activation and working conditions. Journal of Catalysis, 2022, 405, 183-198.	6.2	7
2	Operando high-pressure investigation of size-controlled CuZn catalysts for the methanol synthesis reaction. Nature Communications, 2021, 12, 1435.	12.8	62
3	Crystallographic Orientation Dependence of Surface Segregation and Alloying on PdCu Catalysts for CO₂ Hydrogenation. Journal of Physical Chemistry Letters, 2021, 12, 2570-2575.	4.6	7
4	Excited-State Charge Distribution of a Donorâ^'Ï€â€“Acceptor Zn Porphyrin Probed by N K-Edge Transient Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2021, 12, 1182-1188.	4.6	19
5	On the reversible deactivation of cobalt ferrite spinel nanoparticles applied in selective 2-propanol oxidation. Journal of Catalysis, 2020, 382, 57-68.	6.2	31
6	Operando NRIXS and XAFS Investigation of Segregation Phenomena in Feâ€Cu and Feâ€Ag Nanoparticle Catalysts during CO 2 Electroreduction. Angewandte Chemie, 2020, 132, 22856-22863.	2.0	2
7	Operando NRIXS and XAFS Investigation of Segregation Phenomena in Feâ€Cu and Feâ€Ag Nanoparticle Catalysts during CO₂ Electroreduction. Angewandte Chemie - International Edition, 2020, 59, 22667-22674.	13.8	26
8	In-situ structure and catalytic mechanism of NiFe and CoFe layered double hydroxides during oxygen evolution. Nature Communications, 2020, 11, 2522.	12.8	594
9	Selective 2-Propanol Oxidation over Unsupported Co₃O₄ Spinel Nanoparticles: Mechanistic Insights into Aerobic Oxidation of Alcohols. ACS Catalysis, 2019, 9, 5974-5985.	11.2	61
10	Surface Segregation in CuNi Nanoparticle Catalysts During CO₂ Hydrogenation: The Role of CO in the Reactant Mixture. Journal of Physical Chemistry C, 2019, 123, 8421-8428.	3.1	38
11	X-Ray Spectroscopic Characterization of BaO, Ba(OH)2, BaCO3, and Ba(NO3)2. Journal of Electron Spectroscopy and Related Phenomena, 2018, 225, 55-61.	1.7	22
12	Segregation Phenomena in Size-Selected Bimetallic CuNi Nanoparticle Catalysts. Journal of Physical Chemistry B, 2018, 122, 919-926.	2.6	18
13	Highly active single-layer MoS₂ catalysts synthesized by swift heavy ion irradiation. Nanoscale, 2018, 10, 22908-22916.	5.6	39
14	Operando Evolution of the Structure and Oxidation State of Size-Controlled Zn Nanoparticles during CO₂ Electroreduction. Journal of the American Chemical Society, 2018, 140, 9383-9386.	13.7	152
15	Plasma-Activated Copper Nanocube Catalysts for Efficient Carbon Dioxide Electroreduction to Hydrocarbons and Alcohols. ACS Nano, 2017, 11, 4825-4831.	14.6	372
16	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
17	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
18	Enhanced Carbon Dioxide Electroreduction to Carbon Monoxide over Defectâ€Rich Plasmaâ€Activated Silver Catalysts. Angewandte Chemie, 2017, 129, 11552-11556.	2.0	58

#	Article	IF	Citations
19	Enhanced Carbon Dioxide Electroreduction to Carbon Monoxide over Defectâ€Rich Plasmaâ€Activated Silver Catalysts. Angewandte Chemie - International Edition, 2017, 56, 11394-11398.	13.8	180
20	Highly selective plasma-activated copper catalysts for carbon dioxide reduction to ethylene. Nature Communications, 2016, 7, 12123.	12.8	896
21	Probing the Dynamic Structure and Chemical State of Au Nanocatalysts during the Electrochemical Oxidation of 2-Propanol. ACS Catalysis, 2016, 6, 3396-3403.	11.2	22
22	Aqueous solution/metal interfaces investigated in operando by photoelectron spectroscopy. Faraday Discussions, 2015, 180, 35-53.	3.2	99
23	Synchrotron-based spectroscopy for solar energy conversion. Proceedings of SPIE, 2015, , .	0.8	1
24	Toward Ultrafast In Situ X-ray Studies of Interfacial Photoelectrochemistry. Springer Proceedings in Physics, 2015, , 325-328.	0.2	2
25	Capturing interfacial photoelectrochemical dynamics with picosecond time-resolved X-ray photoelectron spectroscopy. Faraday Discussions, 2014, 171, 219-241.	3.2	28
26	Sub-nanosecond time-resolved ambient-pressure X-ray photoelectron spectroscopy setup for pulsed and constant wave X-ray light sources. Review of Scientific Instruments, 2014, 85, 093102.	1.3	30
27	Boron Doped diamond films as electron donors in photovoltaics: An X-ray absorption and hard X-ray photoemission study. Journal of Applied Physics, 2014, 116, .	2.5	7
28	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
29	Titanium incorporation into hematite photoelectrodes: theoretical considerations and experimental observations. Energy and Environmental Science, 2014, 7, 3100-3121.	30.8	118
30	Electronic superlattice revealed by resonant scattering from random impurities in Sr3Ru2O7. Scientific Reports, 2013, 3, 2299.	3.3	10
31	On the orbital anisotropy in hematite nanorod-based photoanodes. Physical Chemistry Chemical Physics, 2013, 15, 13483.	2.8	18
32	Design of solar cell materials via soft X-ray spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2013, 190, 2-11.	1.7	15
33	Electronic structure of Fe- vs. Ru-based dye molecules. Journal of Chemical Physics, 2013, 138, 044709.	3.0	13
34	Spectroscopy of Donorâ^Ï€â€“Acceptor Porphyrins for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2013, 117, 13357-13364.	3.1	36
35	Lattice dynamical signature of charge density wave formation in underdopedYBa2Cu3O6+x. Physical Review B, 2013, 88, .	3.2	25
36	Influence of Axial and Peripheral Ligands on the Electronic Structure of Titanium Phthalocyanines. Journal of Physical Chemistry C, 2013, 117, 4410-4420.	3.1	24

#	Article	IF	Citations
37	X-RAY SCATTERING STUDIES OF 4D- AND 5D-ELECTRON TRANSITION METAL OXIDES. , 2013, , 43-98.		0
38	Electronic Structure of Diamond Surfaces Functionalized by Ru(tpy)₂. Journal of Physical Chemistry C, 2012, 116, 13877-13883.	3.1	21
39	On the Interfacial Electronic Structure Origin of Efficiency Enhancement in Hematite Photoanodes. Journal of Physical Chemistry C, 2012, 116, 22780-22785.	3.1	46
40	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
41	Orbital reflectometry of oxide heterostructures. Nature Materials, 2011, 10, 189-193.	27.5	215
42	Magnetic Structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>RuSr</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi>GdCu</mml:mi><mml:mi mathvariant="bold">O</mml:mi><mml:mn>8</mml:mn></mml:msub></mml:math>Determined by Resonant X-Ray Diffraction. Physical Review Letters, 2009, 102, 037205.	7.8	26
43	Magnetic structure and orbital state ofCa3Ru2O7investigated by resonant x-ray diffraction. Physical Review B, 2008, 77, .	3.2	24
44	Magnetic-field-induced transitions in multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>TbMnO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>by resonant and nonresonant x-ray diffraction. Physical Review B, 2008, 78, .	3.2	23
45	Melting of incommensurate-ferroelectric phase with magnetic field in multiferroicTbMnO3. Physical Review B, 2007, 75, .	3.2	33
46	Optical response of ferromagnetic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Y</mml:mi><mml:mi mathvariant="normal">Ti</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>studied by spectral ellipsometry. Physical Review B, 2007, 76, .	3.2	32
47	Field-induced linear magnetoelastic coupling in multiferroicTbMnO3. Physical Review B, 2006, 73, .	3.2	113
48	Orbital Ordering Transition inCa2RuO4Observed with Resonant X-Ray Diffraction. Physical Review Letters, 2005, 95, 136401.	7.8	78
49	Oxygen Superstructures Throughout the Phase Diagram of(Y,Ca)Ba2Cu3O6+x. Physical Review Letters, 2004, 93, 157007.	7.8	31
50	Dielectric And Hydration Properties Of Segmental Polyurethanes. Materials Research Innovations, 2004, 8, 134-135.	2.3	2