

Sarp Kaya

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Stabilization of Cu ₂ O through Site-Selective Formation of a Co ₁ Cu Hybrid Single-Atom Catalyst. <i>Chemistry of Materials</i> , 2022, 34, 2313-2320.	3.2	5
2	Ag/AgCl clusters derived from AgCu alloy nanoparticles as electrocatalysts for the oxygen reduction reaction. <i>Sustainable Energy and Fuels</i> , 2022, 6, 2593-2601.	2.5	2
3	Mesoporous Molybdenum Sulfide-Oxide Composite Thin-Film Electrodes Prepared by a Soft Templating Method for the Hydrogen Evolution Reaction. <i>ACS Applied Energy Materials</i> , 2022, 5, 7006-7015.	2.5	4
4	The significance of the local structure of cobalt-based catalysts on the photoelectrochemical water oxidation activity of BiVO ₄ . <i>Electrochimica Acta</i> , 2021, 366, 137467.	2.6	8
5	Easy hydrogenation and dehydrogenation of a hybrid graphene and hexagonal boron nitride monolayer on platinum. <i>2D Materials</i> , 2021, 8, 025023.	2.0	3
6	HIPPIE: a new platform for ambient-pressure X-ray photoelectron spectroscopy at the MAX IV Laboratory. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 624-636.	1.0	60
7	Surfactant-free synthesis of CdS nanorods for efficient reduction of carcinogenic Cr(VI). <i>Journal of Coordination Chemistry</i> , 2021, 74, 1628-1640.	0.8	6
8	Green synthesis of mesoporous MoS ₂ nanoflowers for efficient photocatalytic degradation of Congo red dye. <i>Journal of Coordination Chemistry</i> , 2021, 74, 2302-2314.	0.8	4
9	Scaling-up photocatalytic activity of CdS from nanorods to nanowires for the MB degradation. <i>Inorganic Chemistry Communication</i> , 2021, 130, 108744.	1.8	9
10	Acetic acid conversion to ketene on Cu ₂ O(1 0 0): Reaction mechanism deduced from experimental observations and theoretical computations. <i>Journal of Catalysis</i> , 2021, 402, 154-165.	3.1	3
11	Modifying the Electron-Trapping Process at the BiVO ₄ Surface States via the TiO ₂ Overlayer for Enhanced Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 60602-60611.	4.0	18
12	Increasing Charge Separation Property and Water Oxidation Activity of BiVO ₄ Photoanodes via a Postsynthetic Treatment. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1337-1345.	1.5	12
13	Enhanced electron transport induced by a ferroelectric field in efficient halide perovskite solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2020, 206, 110318.	3.0	19
14	Charge transfer controlled hydrogenation of graphene on an electronically modified Pt(111) surface. <i>Carbon</i> , 2020, 170, 636-645.	5.4	4
15	Highly sensitive optical sensor for hydrogen gas based on a polymer microcylinder ring resonator. <i>Sensors and Actuators B: Chemical</i> , 2020, 310, 127806.	4.0	16
16	Efficient carrier utilization induced by conductive polypyrrole additives in organic-inorganic halide perovskite solar cells. <i>Solar Energy</i> , 2020, 207, 1300-1307.	2.9	15
17	The Fast-Track Water Oxidation Channel on BiVO ₄ Opened by Nitrogen Treatment. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8758-8764.	2.1	13
18	Mesoporous Thin-Film NiS ₂ as an Idealized Pre-Electrocatalyst for a Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2020, 10, 15114-15122.	5.5	58

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19	Strong Light-Matter Interactions in Au Plasmonic Nanoantennas Coupled with Prussian Blue Catalyst on BiVO ₄ for Photoelectrochemical Water Splitting. <i>ChemSusChem</i> , 2020, 13, 2483-2483.	3.6	4
20	Strong Light-Matter Interactions in Au Plasmonic Nanoantennas Coupled with Prussian Blue Catalyst on BiVO ₄ for Photoelectrochemical Water Splitting. <i>ChemSusChem</i> , 2020, 13, 2577-2588.	3.6	34
21	One-pot synthesis of monodisperse copper-silver alloy nanoparticles and their composition-dependent electrocatalytic activity for oxygen reduction reaction. <i>Journal of Alloys and Compounds</i> , 2020, 831, 154787.	2.8	23
22	Modifying hydrogen binding strength of graphene. <i>Surface Science</i> , 2019, 679, 24-30.	0.8	12
23	A comprehensive study on the characteristic spectroscopic features of nitrogen doped graphene. <i>Applied Surface Science</i> , 2019, 495, 143518.	3.1	11
24	Roles of Charge Carriers in the Excited State Dynamics of BiVO ₄ Photoanodes. <i>Journal of Physical Chemistry C</i> , 2019, 123, 28576-28583.	1.5	8
25	High-Density Isolated Fe ₁ O ₃ Sites on a Single-Crystal Cu ₂ O(100) Surface. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7318-7323.	2.1	8
26	Interaction of Atomic Hydrogen with the Cu ₂ O(100) and (111) Surfaces. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22172-22180.	1.5	13
27	Weakening the strength of CO binding on subsurface alloyed Pt(111). <i>Surface Science</i> , 2019, 682, 1-7.	0.8	4
28	Electrocatalytic reduction of CO ₂ to produce higher alcohols. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2532-2541.	2.5	41
29	Operando X-Ray Photoelectron Spectroscopy Studies of Aqueous Electrocatalytic Systems. <i>Topics in Catalysis</i> , 2016, 59, 439-447.	1.3	23
30	Chemical Bond Activation Observed with an X-ray Laser. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3647-3651.	2.1	21
31	Vacuum space charge effects in sub-picosecond soft X-ray photoemission on a molecular adsorbate layer. <i>Structural Dynamics</i> , 2015, 2, 025101.	0.9	27
32	Optical laser-induced CO desorption from Ru(0001) monitored with a free-electron X-ray laser: DFT prediction and X-ray confirmation of a precursor state. <i>Surface Science</i> , 2015, 640, 80-88.	0.8	13
33	Probing the transition state region in catalytic CO oxidation on Ru. <i>Science</i> , 2015, 347, 978-982.	6.0	193
34	Low Barrier Carbon Induced CO Dissociation on Stepped Cu. <i>Physical Review Letters</i> , 2015, 114, 246101.	2.9	8
35	Strong Influence of Coadsorbate Interaction on CO Desorption Dynamics on Ru(0001) Probed by Ultrafast X-Ray Spectroscopy and Ab Initio Simulations. <i>Physical Review Letters</i> , 2015, 114, 156101.	2.9	25
36	Direct observation of the dealloying process of a platinum-yttrium nanoparticle fuel cell cathode and its oxygenated species during the oxygen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 28121-28128.	1.3	54

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37	Determination of the surface electronic structure of Fe ₃ O ₄ (1 1 1) by soft X-ray spectroscopy. <i>Catalysis Today</i> , 2015, 240, 184-189.	2.2	20
38	Comparison of x-ray absorption spectra between water and ice: New ice data with low pre-edge absorption cross-section. <i>Journal of Chemical Physics</i> , 2014, 141, 034507.	1.2	60
39	Operando Characterization of an Amorphous Molybdenum Sulfide Nanoparticle Catalyst during the Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2014, 118, 29252-29259.	1.5	87
40	In-situ Observation of Surface Species on Iridium Oxide Nanoparticles during the Oxygen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 7169-7172.	7.2	386
41	Different Reactivity of the Various Platinum Oxides and Chemisorbed Oxygen in CO Oxidation on Pt(111). <i>Journal of the American Chemical Society</i> , 2014, 136, 6340-6347.	6.6	71
42	Highly Compressed Two-Dimensional Form of Water at Ambient Conditions. <i>Scientific Reports</i> , 2013, 3, 1074.	1.6	31
43	X-ray Photoemission and Density Functional Theory Study of the Interaction of Water Vapor with the Fe ₃ O ₄ (001) Surface at Near-Ambient Conditions. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2719-2733.	1.5	92
44	Interlayer Carbon Bond Formation Induced by Hydrogen Adsorption in Few-Layer Supported Graphene. <i>Physical Review Letters</i> , 2013, 111, 085503.	2.9	110
45	Stability of Pt-Modified Cu(111) in the Presence of Oxygen and Its Implication on the Overall Electronic Structure. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16371-16380.	1.5	5
46	Direct observation of the oxygenated species during oxygen reduction on a platinum fuel cell cathode. <i>Nature Communications</i> , 2013, 4, .	5.8	325
47	Ambient-pressure photoelectron spectroscopy for heterogeneous catalysis and electrochemistry. <i>Catalysis Today</i> , 2013, 205, 101-105.	2.2	103
48	Ultrafast soft X-ray emission spectroscopy of surface adsorbates using an X-ray free electron laser. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 187, 9-14.	0.8	27
49	Real-Time Observation of Surface Bond Breaking with an X-ray Laser. <i>Science</i> , 2013, 339, 1302-1305.	6.0	179
50	Electronic structure effects in catalysis probed by X-ray and electron spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013, 190, 113-124.	0.8	13
51	Identification of the electronic structure differences between polar isostructural FeO and CoO films by core-level soft x-ray spectroscopy. <i>Physical Review B</i> , 2013, 87, .	1.1	2
52	Selective Ultrafast Probing of Transient Hot Chemisorbed and Precursor States of CO on Ru(0001). <i>Physical Review Letters</i> , 2013, 110, 186101.	2.9	51
53	Probing substrate effects in the carbon-projected band structure of graphene on Pt(111) through resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2012, 85, .	1.1	27
54	Reversible graphene-metal contact through hydrogenation. <i>Physical Review B</i> , 2012, 86, .	1.1	28

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55	Tuning the Metal-Adsorbate Chemical Bond through the Ligand Effect on Platinum Subsurface Alloys. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7724-7728.	7.2	15
56	Autocatalytic Surface Hydroxylation of MgO(100) Terrace Sites Observed under Ambient Conditions. <i>Journal of Physical Chemistry C</i> , 2011, 115, 12864-12872.	1.5	71
57	Formation of hydroxyl and water layers on MgO films studied with ambient pressure XPS. <i>Surface Science</i> , 2011, 605, 89-94.	0.8	130
58	Oxidation of Pt(111) under Near-Ambient Conditions. <i>Physical Review Letters</i> , 2011, 107, 195502.	2.9	151
59	X-ray absorption spectroscopy and X-ray Raman scattering of water and ice; an experimental view. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2010, 177, 99-129.	0.8	158
60	Lattice-strain control of the activity in dealloyed core-shell fuel cell catalysts. <i>Nature Chemistry</i> , 2010, 2, 454-460.	6.6	2,489
61	When an Encapsulating Oxide Layer Promotes Reaction on Noble Metals: Dewetting and In Situ Formation of an Inverted FeO _x /Pt Catalyst. <i>Catalysis Letters</i> , 2008, 126, 31-35.	1.4	46
62	Selectivity in Methanol Oxidation as Studied on Model Systems Involving Vanadium Oxides. <i>Topics in Catalysis</i> , 2008, 50, 106-115.	1.3	53
63	Formation of one-dimensional molybdenum oxide on Mo(112). <i>Surface Science</i> , 2008, 602, 3338-3342.	0.8	23
64	Growth of stoichiometric subnanometer silica films. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	23
65	STRUCTURE, THERMAL STABILITY, AND CO ADSORPTION PROPERTIES OF Pd NANOPARTICLES SUPPORTED ON AN ULTRA-THIN SiO ₂ FILM. <i>Surface Review and Letters</i> , 2007, 14, 927-934.	0.5	7
66	Oxygen adsorption on Mo(112) surface studied by ab initio genetic algorithm and experiment. <i>Journal of Chemical Physics</i> , 2007, 126, 234710.	1.2	37
67	Ice-Assisted Preparation of Silica-Supported Vanadium Oxide Particles. <i>Journal of Physical Chemistry C</i> , 2007, 111, 5337-5344.	1.5	25
68	Formation of an Ordered Ice Layer on a Thin Silica Film. <i>Journal of Physical Chemistry C</i> , 2007, 111, 759-764.	1.5	41
69	On the geometrical and electronic structure of an ultra-thin crystalline silica film grown on Mo(112). <i>Surface Science</i> , 2007, 601, 4849-4861.	0.8	48
70	Interplay between theory and experiment in the quest for silica with reduced dimensionality grown on a Mo(112) surface. <i>Chemical Physics Letters</i> , 2006, 424, 115-119.	1.2	27
71	Low temperature CO induced growth of Pd supported on a monolayer silica film. <i>Surface Science</i> , 2006, 600, L153-L157.	0.8	18
72	Formation of one-dimensional crystalline silica on a metal substrate. <i>Surface Science</i> , 2006, 600, L164-L168.	0.8	19

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73	Vanadium oxide surfaces and supported vanadium oxide nanoparticles. Topics in Catalysis, 2006, 38, 117-125.	1.3	80
74	Synthesis and Structure of Ultrathin Aluminosilicate Films. Angewandte Chemie - International Edition, 2006, 45, 7636-7639.	7.2	45
75	Atomic structure of a thin silica film on a Mo(112) substrate: A combined experimental and theoretical study. Physical Review B, 2006, 73, .	1.1	61
76	Atomic Structure of a Thin Silica Film on a Mo(112) Substrate: A Two-Dimensional Network of SiO ₄ Tetrahedra. Physical Review Letters, 2005, 95, 076103.	2.9	201
77	CO Adsorption study of V/SiO ₂ : the low vanadium coverage regime. Chemical Physics Letters, 2004, 392, 127-131.	1.2	5