

Do Hwan Kim

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3820863/publications.pdf>

Version: 2024-02-01

48
papers

1,608
citations

394286

19
h-index

302012

39
g-index

49
all docs

49
docs citations

49
times ranked

1109
citing authors

#	ARTICLE	IF	CITATIONS
1	Rational design of multifunctional electrocatalyst: An approach towards efficient overall water splitting and rechargeable flexible solid-state zinc-air battery. <i>Applied Catalysis B: Environmental</i> , 2022, 300, 120752.	10.8	150
2	Structural, electronic, and electrocatalytic evaluation of spinel transition metal sulfide supported reduced graphene oxide. <i>Journal of Materials Chemistry A</i> , 2022, 10, 1999-2011.	5.2	51
3	Reduction of Transition-Metal Columbite-Tantalite as a Highly Efficient Electrocatalyst for Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15090-15102.	4.0	3
4	Atomic Heterointerface Engineering of Ni ₂ P@NiSe ₂ Nanosheets Coupled Zn-Based Arrays for High-Efficiency Solar-Assisted Water Splitting. <i>Advanced Functional Materials</i> , 2022, 32, .	7.8	49
5	Chromium-rich Cr _x Ir _{1-x} O ₂ wire-in-tube alloys for boosted water oxidation with long standing electrocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13803-13813.	5.2	10
6	A single atom Ir doped heterophase of a NiMoP-NiMoPO _y ultrathin layer assembled on CNTs-graphene for high-performance water splitting. <i>Journal of Materials Chemistry A</i> , 2022, 10, 14604-14612.	5.2	12
7	Rational Engineering Co _x O _y Nanosheets via Phosphorous and Sulfur Dual-Coupling for Enhancing Water Splitting and Zn-Air Battery. <i>Advanced Functional Materials</i> , 2021, 31, 2007822.	7.8	44
8	Hierarchical Co and Nb dual-doped MoS ₂ nanosheets shelled micro-TiO ₂ hollow spheres as effective multifunctional electrocatalysts for HER, OER, and ORR. <i>Nano Energy</i> , 2021, 82, 105750.	8.2	220
9	Single-Atom Co-Decorated MoS ₂ Nanosheets Assembled on Metal Nitride Nanorod Arrays as an Efficient Bifunctional Electrocatalyst for pH-Universal Water Splitting. <i>Advanced Functional Materials</i> , 2021, 31, 2100233.	7.8	108
10	3D nickel molybdenum oxyselenide (Ni _{1-x} Mo _x OSe) nanoarchitectures as advanced multifunctional catalyst for Zn-air batteries and water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 286, 119909.	10.8	72
11	Novel core-shell CuMo-oxynitride@N-doped graphene nanohybrid as multifunctional catalysts for rechargeable zinc-air batteries and water splitting. <i>Nano Energy</i> , 2021, 85, 105987.	8.2	89
12	Bifunctional Catalyst Derived from Sulfur-Doped VMoO _x Nanolayer Shelled Co Nanosheets for Efficient Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42944-42956.	4.0	26
13	Ruthenium single atoms implanted continuous MoS ₂ -Mo ₂ C heterostructure for high-performance and stable water splitting. <i>Nano Energy</i> , 2021, 88, 106277.	8.2	68
14	Activated CuNi@Ni Core@shell structures via oxygen and nitrogen dual coordination assembled on 3D CNTs-graphene hybrid for high-performance water splitting. <i>Applied Catalysis B: Environmental</i> , 2021, 294, 120263.	10.8	44
15	Rational construction of Au@Co ₂ N _{0.67} nanodots-interspersed 3D interconnected N-graphene hollow sphere network for efficient water splitting and Zn-air battery. <i>Nano Energy</i> , 2021, 89, 106420.	8.2	26
16	Theoretical study of ethyl alcohol adsorbed on a germanium (100) surface. <i>Bulletin of the Korean Chemical Society</i> , 2021, 42, 1585.	1.0	0
17	Highly Effective Freshwater and Seawater Electrolysis Enabled by Atomic Rh-Modulated Co-CoO Lateral Heterostructures. <i>Small</i> , 2021, 17, e2103826.	5.2	47
18	Density Functional Theory Calculations of the Adsorption of Cytosine on Si(100). <i>Bulletin of the Korean Chemical Society</i> , 2020, 41, 1060-1067.	1.0	1

#	ARTICLE	IF	CITATIONS
19	Hierarchical 3D Oxygenated Cobalt Vanadium Selenide Nanosheets as Advanced Electrode for Flexible Zinc-Cobalt and Zinc-Air Batteries. <i>Small</i> , 2020, 16, e2004661.	5.2	54
20	Molybdenum and Phosphorous Dual Doping in Cobalt Monolayer Interfacial Assembled Cobalt Nanowires for Efficient Overall Water Splitting. <i>Advanced Functional Materials</i> , 2020, 30, 2002533.	7.8	107
21	Rational Design of Core@shell Structured CoS _x @Cu ₂ MoS ₄ Hybridized MoS ₂ /N,S-Codoped Graphene as Advanced Electrocatalyst for Water Splitting and Zn-Air Battery. <i>Advanced Energy Materials</i> , 2020, 10, 1903289.	10.2	179
22	Temperature Dependence of the Reaction HCl + OH ⁻ ⇌ Cl ⁻ + H ₂ O between 140 and 1100 K. <i>Bulletin of the Chemical Society</i> , 2019, 40, 93-101.	1.0	1
23	Nitrogen Atom Abstraction of Nitrogen Chemisorbed on W(100) Surface. <i>Bulletin of the Korean Chemical Society</i> , 2018, 39, 231-238.	1.0	0
24	Chemisorption of Ethanol on Ge(100) Surface. <i>Journal of Physical Chemistry C</i> , 2018, 122, 15352-15358.	1.5	4
25	Functionalization of Ge(100) surface by adsorption of phenylthiol. <i>Applied Surface Science</i> , 2018, 456, 908-914.	3.1	2
26	Competing Reactions of Vinyl and Hydroxyl Groups of Vinyl Alcohol on Ge(100): Effects of Vinyl Substituent on Dissociative Adsorption. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17319-17327.	1.5	1
27	Dissociative adsorption of a multifunctional compound on a semiconductor surface: a theoretical study of the adsorption of hydroxylamine on Ge(100). <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15335-15343.	1.3	3
28	A first-principles study on the adsorption of ethylenediamine on Ge(100). <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 16881-16887.	1.3	4
29	Adsorption Structures of Acetic Acid on Ge(100) at High Coverage. <i>Journal of Physical Chemistry C</i> , 2017, 121, 18584-18592.	1.5	3
30	Molecular tuning of amino acids to form two-dimensional molecular networks driven by conformational preorganization. <i>Chemical Communications</i> , 2016, 52, 14055-14058.	2.2	5
31	Chemical Reaction of Benzoic Acid with Ge(100): Effect of a Phenyl Substituent. <i>Journal of Physical Chemistry C</i> , 2016, 120, 14742-14748.	1.5	5
32	Dissociative adsorption of guanine on Ge(100). <i>Chemical Communications</i> , 2015, 51, 12815-12818.	2.2	10
33	Functional Group-Selective Adsorption Using Scanning Tunneling Microscopy. <i>ACS Nano</i> , 2012, 6, 3597-3603.	7.3	6
34	Adsorption Structure and Reaction Mechanism of Purine on Ge(100) Studied by Scanning Tunneling Microscopy and Theoretical Calculations. <i>Journal of Physical Chemistry C</i> , 2012, 116, 6953-6959.	1.5	12
35	Chemisorption of cis-2-butene-1,4-diol on Si(100): A theoretical investigation. <i>Surface Science</i> , 2012, 606, 1268-1273.	0.8	3
36	Hydrogen-Bonded Amino Acid Network of Histidine on Ge(100). <i>Journal of Physical Chemistry C</i> , 2011, 115, 4636-4641.	1.5	15

#	ARTICLE	IF	CITATIONS
37	Subsurface Incorporation of Co Atoms into Si(100). Journal of Physical Chemistry C, 2011, 115, 15467-15470.	1.5	7
38	Atomic and electronic structure of styrene on Ge(100). Surface Science, 2011, 605, 1438-1444.	0.8	3
39	Atomic and electronic structure of methanol on Ge(100). Surface Science, 2010, 604, 129-135.	0.8	22
40	Creation and annihilation of single atom vacancy during subsurface diffusion. Physical Review B, 2010, 82, .	1.1	8
41	Discrimination of Chiral Adsorption Configurations: Styrene on Germanium(100). Journal of Physical Chemistry C, 2009, 113, 1426-1432.	1.5	10
42	Structural Properties of Norbornene Monolayers on Ge(100). Journal of Physical Chemistry C, 2009, 113, 14311-14315.	1.5	2
43	Atomic and Electronic Structure of Pyrrole on Ge(100). Journal of Physical Chemistry C, 2008, 112, 7412-7419.	1.5	17
44	Dissociative Chemisorption of Methanol on Ge(100). Journal of Physical Chemistry C, 2007, 111, 15013-15019.	1.5	37
45	Bidentate Structures of Acetic Acid on Ge(100): The Role of Carboxyl Oxygen. Journal of Physical Chemistry C, 2007, 111, 5941-5945.	1.5	23
46	Chemical Reactions and Adsorption Geometries of Pyrrole on Ge(100). Journal of Physical Chemistry B, 2006, 110, 7938-7943.	1.2	13
47	Atomic and electronic structure of acetic acid on Ge(100). Surface Science, 2006, 600, 3629-3632.	0.8	19
48	Structure of Pyrrole on Ge(100). Japanese Journal of Applied Physics, 2006, 45, 2148-2150.	0.8	2