

Pussana Hirunsit

List of Publications by Year in descending order

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39
papers

4,305
citations

331259

21
h-index

315357

38
g-index

40
all docs

40
docs citations

40
times ranked

7309
citing authors

#	ARTICLE	IF	CITATIONS
1	Trends in activity for the water electrolyser reactions on 3d M(Ni,Co,Fe,Mn) hydr(oxy)oxide catalysts. <i>Nature Materials</i> , 2012, 11, 550-557.	13.3	2,423
2	Electrochemical Reduction of CO ₂ Using Copper Single-Crystal Surfaces: Effects of CO* Coverage on the Selective Formation of Ethylene. <i>ACS Catalysis</i> , 2017, 7, 1749-1756.	5.5	507
3	CO ₂ Electrochemical Reduction to Methane and Methanol on Copper-Based Alloys: Theoretical Insight. <i>Journal of Physical Chemistry C</i> , 2015, 119, 8238-8249.	1.5	157
4	On the Role of Sulfur for the Selective Electrochemical Reduction of CO ₂ to Formate on CuS Catalysts. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 28572-28581.	4.0	157
5	Effects of Confinement on Water Structure and Dynamics: A Molecular Simulation Study. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1709-1715.	1.5	105
6	Electronic structures and quantum capacitance of monolayer and multilayer graphenes influenced by Al, B, N and P doping, and monovacancy: Theoretical study. <i>Carbon</i> , 2016, 108, 7-20.	5.4	99
7	Electroreduction of Carbon Dioxide to Methane on Copper, Copper-Silver, and Copper-Gold Catalysts: A DFT Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8262-8268.	1.5	87
8	Comprehensive Mechanism of CO ₂ Electroreduction toward Ethylene and Ethanol: The Solvent Effect from Explicit Water-Cu(100) Interface Models. <i>ACS Catalysis</i> , 2021, 11, 9688-9701.	5.5	65
9	New understanding of crystal control and facet selectivity of titanium dioxide ruling photocatalytic performance. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8156-8166.	5.2	63
10	Lewis Acid Catalysis of Nb ₂ O ₅ for Reactions of Carboxylic Acid Derivatives in the Presence of Basic Inhibitors. <i>ChemCatChem</i> , 2019, 11, 383-396.	1.8	53
11	Platinum-monolayer electrocatalysts: Palladium interlayer on IrCo alloy core improves activity in oxygen-reduction reaction. <i>Journal of Electroanalytical Chemistry</i> , 2010, 649, 232-237.	1.9	45
12	Effect of alumina hydroxylation on glycerol hydrogenolysis to 1,2-propanediol over Cu/Al ₂ O ₃ : combined experiment and DFT investigation. <i>RSC Advances</i> , 2015, 5, 11188-11197.	1.7	42
13	Evolution of Pt and Pt-Alloy Catalytic Surfaces Under Oxygen Reduction Reaction in Acid Medium. <i>Topics in Catalysis</i> , 2012, 55, 322-335.	1.3	38
14	Effects of Fe doping on enhancing electrochemical properties of NiCo ₂ S ₄ supercapacitor electrode. <i>Electrochimica Acta</i> , 2020, 340, 135939.	2.6	36
15	Cu-Cr, Cu-Mn, and Cu-Fe Spinel-Oxide-Type Catalysts for Reforming of Oxygenated Hydrocarbons. <i>Journal of Physical Chemistry C</i> , 2013, 117, 23757-23765.	1.5	35
16	Cooperative H ₂ Activation at Ag Cluster/Al ₂ O ₃ (110) Dual Perimeter Sites: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 7996-8006.	1.5	31
17	Transport properties of electron small polarons in a V ₂ O ₅ cathode of Li-ion batteries: a computational study. <i>RSC Advances</i> , 2019, 9, 19483-19494.	1.7	31
18	Origin of Nb ₂ O ₅ Lewis Acid Catalysis for Activation of Carboxylic Acids in the Presence of a Hard Base. <i>ChemPhysChem</i> , 2018, 19, 2848-2857.	1.0	28

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19	Vibrational Spectra of Anhydrous and Monohydrated Caffeine and Theophylline Molecules and Crystals. <i>Journal of Physical Chemistry A</i> , 2008, 112, 10210-10219.	1.1	27
20	Electrochemical oxidation of resorcinol: mechanistic insights from experimental and computational studies. <i>RSC Advances</i> , 2020, 10, 28454-28463.	1.7	25
21	Cu-Al spinel-oxide catalysts for selective hydrogenation of furfural to furfuryl alcohol. <i>Catalysis Today</i> , 2021, 367, 177-188.	2.2	25
22	Effects of water and electric field on atomic oxygen adsorption on Pt-Co alloys. <i>Surface Science</i> , 2009, 603, 3239-3248.	0.8	22
23	Ni-doped activated carbon nanofibers for storing hydrogen at ambient temperature: Experiments and computations. <i>Fuel</i> , 2021, 288, 119608.	3.4	21
24	Surface atomic distribution and water adsorption on Pt-Co alloys. <i>Surface Science</i> , 2009, 603, 912-920.	0.8	20
25	Stability of Pt Monolayers on Ir-Co Cores with and without a Pd Interlayer. <i>Journal of Physical Chemistry C</i> , 2010, 114, 13055-13060.	1.5	19
26	Shell-anchor-core structures for enhanced stability and catalytic oxygen reduction activity. <i>Journal of Chemical Physics</i> , 2010, 133, 134705.	1.2	18
27	Electronic and thermodynamic properties of native point defects in V_2O_5 : a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 11374-11387.	1.3	18
28	Effects of Confinement on Small Water Clusters Structure and Proton Transport. <i>Journal of Physical Chemistry A</i> , 2007, 111, 10722-10731.	1.1	17
29	Tuning CuZn interfaces in metal-organic framework-derived electrocatalysts for enhancement of CO_2 conversion to C_2 products. <i>Catalysis Science and Technology</i> , 2021, 11, 8065-8078.	2.1	17
30	Evolution of a Pt (111) surface at high oxygen coverage in acid medium. <i>Chemical Physics Letters</i> , 2010, 498, 328-333.	1.2	15
31	Catalytic behavior and surface species investigation over γ - Al_2O_3 in dimethyl ether hydrolysis. <i>Applied Catalysis A: General</i> , 2013, 460-461, 99-105.	2.2	13
32	On the Enhanced Reducibility and Charge Transport Properties of Phosphorus-Doped $BiVO_4$ as Photocatalysts: A Computational Study. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4352-4362.	1.5	10
33	Insight into the Roles of Metal Loading on CO_2 Photocatalytic Reduction Behaviors of TiO_2 . <i>Nanomaterials</i> , 2022, 12, 474.	1.9	10
34	Addition Reactions of Alkyl and Carboxyl Radicals to Vinylidene Fluoride. <i>Journal of Physical Chemistry A</i> , 2008, 112, 4483-4489.	1.1	7
35	Cyclopentadithiophene and Diketo-pyrrolo-pyrrole fused rigid copolymer for high optical contrast electrochromic polymer. <i>Journal of Polymer Research</i> , 2020, 27, 1.	1.2	6
36	The Role of Metal Species on Aldehyde Hydrogenation over Co ₁₃ and Ni ₁₃ Supported on γ - Al_2O_3 (110) Surfaces: A Theoretical Study. <i>ChemistrySelect</i> , 2020, 5, 4058-4068.	0.7	6

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37	Synergistic Effects of V and Ni Catalysts on Hydrogen Sorption Kinetics of Mg-Based Hydrogen Storage Materials: A Computational Study. <i>Journal of Physical Chemistry C</i> , 2022, 126, 5483-5492.	1.5	5
38	Mechanistic Study of the Effect of Epoxy Groups on Ethylene Carbonate Decomposition Reaction on Carbon Anodes of Sodium-Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8031-8044.	1.5	2
39	Origin of Nb ₂ O ₅ Lewis Acid Catalysis for Activation of Carboxylic Acids in the Presence of a Hard Base. <i>ChemPhysChem</i> , 2018, 19, 2809-2809.	1.0	0