

Jumras Limtrakul

List of Publications by Citations

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88

papers

2,465

citations

29

h-index

46

g-index

95

ext. papers

2,856

ext. citations

4.6

avg, IF

5.11

L-index

#	Paper	IF	Citations
88	Bulk Properties of Transition Metals: A Challenge for the Design of Universal Density Functionals. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 3832-9	6.4	187
87	Establishing the Accuracy of Broadly Used Density Functionals in Describing Bulk Properties of Transition Metals. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 1631-40	6.4	153
86	High-Performance Asymmetric Supercapacitors of MnCoO Nanofibers and N-Doped Reduced Graphene Oxide Aerogel. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 34045-34053	9.5	137
85	Thiolate-Mediated Selectivity Control in Aerobic Alcohol Oxidation by Porous Carbon-Supported Au ₂₅ Clusters. <i>ACS Catalysis</i> , 2014 , 4, 3696-3700	13.1	133
84	Reaction Mechanisms for CO Catalytic Oxidation by N ₂ O on Fe-Embedded Graphene. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16992-16998	3.8	112
83	Enantioselective recognition at mesoporous chiral metal surfaces. <i>Nature Communications</i> , 2014 , 5, 3325-3331	7.4	98
82	Charge storage mechanisms of manganese oxide nanosheets and N-doped reduced graphene oxide aerogel for high-performance asymmetric supercapacitors. <i>Scientific Reports</i> , 2016 , 6, 37560	4.9	75
81	MALDI Mass Analysis of 11 kDa Gold Clusters Protected by Octadecanethiolate Ligands. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 16004-16009	3.8	66
80	Versatile Procedure for Synthesis of Janus-Type Carbon Tubes. <i>Chemistry of Materials</i> , 2011 , 23, 2595-2598	3.8	62
79	Asymmetric synthesis using chiral-encoded metal. <i>Nature Communications</i> , 2016 , 7, 12678	17.4	58
78	Adsorption and Tautomerization Reaction of Acetone on Acidic Zeolites: The Confinement Effect in Different Types of Zeolites. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 15061-15067	3.8	58
77	Coordinatively Unsaturated Metal-Organic Frameworks M(btc) (M = Cr, Fe, Co, Ni, Cu, and Zn) Catalyzing the Oxidation of CO by NO: Insight from DFT Calculations. <i>Inorganic Chemistry</i> , 2017 , 56, 14005-14012	5.1	54
76	Hierarchical FAU-type zeolite nanosheets as green and sustainable catalysts for benzylation of toluene. <i>Journal of Cleaner Production</i> , 2017 , 142, 1244-1251	10.3	44
75	Direct oxidation of methane to methanol on Fe ₃ O ₄ modified graphene. <i>RSC Advances</i> , 2014 , 4, 12572-12578	3.7	40
74	Lithium Bond Impact on Lithium Polysulfide Adsorption with Functionalized Carbon Fiber Paper Interlayers for Lithium-Sulfur Batteries. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 7033-7040	3.8	39
73	C-H Bond Activation on Au/Pd Bimetallic Nanocatalysts Studied by Density Functional Theory and Genetic Algorithm Calculations. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22188-22196	3.8	38
72	Halogen substitutions leading to enhanced oxygen evolution and oxygen reduction reactions in metalloporphyrin frameworks. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 29540-29548	3.6	37

71	Optically driven translational and rotational motions of microrod particles in a nematic liquid crystal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 1716-1720	11.5	37
70	Direct synthesis of hierarchical ferrierite nanosheet assemblies via an organosilane template approach and determination of their catalytic activity. <i>Microporous and Mesoporous Materials</i> , 2016 , 219, 1-9	5.3	36
69	One-pot synthesis of novel hierarchical bifunctional Ga/HZSM-5 nanosheets for propane aromatization. <i>RSC Advances</i> , 2016 , 6, 2875-2881	3.7	36
68	Surfactant-assisted electrodeposition and improved electrochemical capacitance of silver-doped manganese oxide pseudocapacitor electrodes. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 2623-2629	2.6	36
67	Hydrophobically modified chitosan: a bio-based material for antimicrobial active film. <i>Materials Science and Engineering C</i> , 2014 , 42, 569-77	8.3	35
66	Engineering Transition-Metal-Coated Tungsten Carbides for Efficient and Selective Electrochemical Reduction of CO ₂ to Methane. <i>ChemSusChem</i> , 2015 , 8, 2745-51	8.3	34
65	Structural and electronic bistability in ZnS single sheets and single-walled nanotubes. <i>Physical Review B</i> , 2011 , 83,	3.3	34
64	Controlled Synthesis of Carbon-Supported Gold Clusters for Rational Catalyst Design. <i>Chemical Record</i> , 2016 , 16, 2338-2348	6.6	33
63	Enantioselective Recognition of DOPA by Mesoporous Platinum Imprinted with Mandelic Acid. <i>Electroanalysis</i> , 2015 , 27, 2209-2213	3	31
62	Role of Calcination Temperatures of ZrO ₂ Support on Methanol Synthesis from CO ₂ Hydrogenation at High Reaction Temperatures over ZnOx/ZrO ₂ Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 5525-5535	3.9	30
61	Adsorption and decarbonylation of furfural over H-ZSM-5 zeolite: a DFT study. <i>RSC Advances</i> , 2016 , 6, 105888-105894	3.7	30
60	Aldol condensation of biomass-derived platform molecules over amine-grafted hierarchical FAU-type zeolite nanosheets (Zeolean) featuring basic sites. <i>Chemical Communications</i> , 2017 , 53, 12185-12188	5.8	29
59	Wireless Synthesis and Activation of Electrochemiluminescent Thermoresponsive Janus Objects Using Bipolar Electrochemistry. <i>Langmuir</i> , 2016 , 32, 12995-13002	4	26
58	A DFT Study of Tungsten-Methylidene Formation on a W/ZSM-5 Zeolite: The Metathesis Active Site. <i>ChemPhysChem</i> , 2015 , 16, 3334-9	3.2	26
57	Ethylene Epoxidation with Nitrous Oxide over Fe-BTC Metal-Organic Frameworks: A DFT Study. <i>ChemPhysChem</i> , 2016 , 17, 3416-3422	3.2	26
56	Sustainable production of ethylene from bioethanol over hierarchical ZSM-5 nanosheets. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 115-126	5.8	26
55	Anisotropic Metal Deposition on TiO Particles by Electric-Field-Induced Charge Separation. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11431-11435	16.4	25
54	Structures and Energetics of the Methylation of 2-Methylnaphthalene with Methanol over H-BEA Zeolite. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 21611-21617	3.8	25

53	Structure-activity correlation study of HIV-1 inhibitors: electronic and molecular parameters. <i>Journal of Computer-Aided Molecular Design</i> , 1996 , 10, 145-52	4.2	24
52	Mathematical modeling of crystallization analysis fractionation of ethylene/1-hexene copolymers. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007 , 45, 1010-1017	2.6	23
51	Quantitative structure-activity relationships and comparative molecular field analysis of TIBO derivatised HIV-1 reverse transcriptase inhibitors. <i>Journal of Computer-Aided Molecular Design</i> , 1999 , 13, 563-77	4.2	23
50	Site-Selective Synthesis of Janus-type Metal-Organic Framework Composites. <i>Angewandte Chemie</i> , 2014 , 126, 4082-4086	3.6	22
49	Healing of a Vacancy Defect in a Single-Walled Carbon Nanotube by Carbon Monoxide Disproportionation. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 4649-4655	3.8	22
48	Mathematical modeling of crystallization analysis fractionation (Crystaf) of polyethylene. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2006 , 44, 2749-2759	2.6	22
47	Insight into the effect of intercalated alkaline cations of layered manganese oxides on the oxygen reduction reaction and oxygen evolution reaction. <i>Chemical Communications</i> , 2018 , 54, 8575-8578	5.8	22
46	Methane activation on Fe- and FeO-embedded graphene and boron nitride sheet: role of atomic defects in catalytic activities. <i>RSC Advances</i> , 2015 , 5, 97918-97927	3.7	21
45	Porous Materials as a Platform for Highly Uniform Single-Atom Catalysts: Tuning the Electronic Structure for the Low-Temperature Oxidation of Carbon Monoxide. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 19686-19697	3.8	21
44	Novel Hybrid Energy Conversion and Storage Cell with Photovoltaic and Supercapacitor Effects in Ionic Liquid Electrolyte. <i>Scientific Reports</i> , 2018 , 8, 12192	4.9	19
43	Pyridine adsorbed on H-Faujasite zeolite: Electrostatic effect of the infinite crystal lattice calculated from a point charge representation. <i>International Journal of Quantum Chemistry</i> , 2005 , 105, 898-905	2.1	19
42	Characterization of acidity in [B], [Al], and [Ga] isomorphously substituted ZSM-5: Embedded DFT/UFF approach. <i>International Journal of Quantum Chemistry</i> , 2011 , 111, 2275-2282	2.1	18
41	NANOCAVITY EFFECTS ON N ₂ O DECOMPOSITION ON DIFFERENT TYPES OF FE-ZEOLITES (Fe-FER, Fe-BEA, Fe-ZSM-5 AND Fe-FAU): A COMBINED THEORETICAL AND EXPERIMENTAL STUDY. <i>Chemical Engineering Communications</i> , 2008 , 195, 1477-1485	2.2	16
40	Bipolar Electrografting on the Inner Wall of Carbon Nanotubes. <i>ChemElectroChem</i> , 2016 , 3, 410-414	4.3	15
39	Electron impact ionization cross sections of beryllium and beryllium hydrides. <i>European Physical Journal D</i> , 2013 , 67, 1	1.3	14
38	Application of a crystallization kinetics model to simulate the effect of operation conditions on Crystaf profiles and calibration curves. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009 , 47, 866-876	2.6	14
37	Structures and mechanisms of the dehydration of benzaldoxime over Fe-ZSM-5 zeolites: a DFT study. <i>Structural Chemistry</i> , 2013 , 24, 1307-1318	1.8	13
36	Controlled purification, solubilisation and cutting of carbon nanotubes using phosphomolybdic acid. <i>Journal of Materials Chemistry</i> , 2008 , 18, 4056		12

35	Comparison of methods for point-charge representation of electrostatic fields. <i>International Journal of Quantum Chemistry</i> , 2004 , 96, 17-22	2.1	12
34	Catalytic upgrading of carboxylic acids as bio-oil models over hierarchical ZSM-5 obtained via an organosilane approach. <i>RSC Advances</i> , 2017 , 7, 35581-35589	3.7	11
33	The versatile synthesis method for hierarchical micro- and mesoporous zeolite: An embedded nanocarbon cluster approach. <i>Canadian Journal of Chemical Engineering</i> , 2012 , 90, 873-880	2.3	11
32	Direct observation of two-dimensional nematic and smectic ordering in freely suspended films of a bolaamphiphilic liquid crystal. <i>Soft Matter</i> , 2011 , 7, 9978	3.6	11
31	Density Functional Investigation of the Conversion of Furfural to Furfuryl Alcohol by Reaction with -Propanol over UiO-66 Metal-Organic Framework. <i>Inorganic Chemistry</i> , 2021 , 60, 4860-4868	5.1	11
30	Carbon dissolution and segregation in platinum. <i>Catalysis Science and Technology</i> , 2017 , 7, 807-816	5.5	10
29	The coumarin synthesis: a combined experimental and theoretical study. <i>Monatshefte für Chemie</i> , 2017 , 148, 1245-1250	1.4	10
28	CO ₂ Hydrogenation to Light Olefins Over In ₂ O ₃ /SAPO-34 and Fe-Co/K-Al ₂ O ₃ Composite Catalyst. <i>Topics in Catalysis</i> , 2021 , 64, 316-327	2.3	10
27	Density functional theory study on catalytic cracking of n-hexane on heteropoly acid: A comparison with acidic zeolite. <i>Canadian Journal of Chemical Engineering</i> , 2012 , 90, 865-872	2.3	9
26	CONFINEMENT EFFECTS ON ADSORPTION AND DIFFUSION OF HEXANE IN NANOPOROUS MCM-41 WITH DIFFERENT PORE SIZES: A MOLECULAR DYNAMICS STUDY. <i>Chemical Engineering Communications</i> , 2008 , 195, 1486-1501	2.2	9
25	Electron impact ionisation cross sections of iron hydrogen clusters. <i>European Physical Journal D</i> , 2016 , 70, 1	1.3	6
24	A mechanistic study of ethanol transformation into ethene and acetaldehyde on an oxygenated Au-exchanged ZSM-5 zeolite. <i>RSC Advances</i> , 2017 , 7, 38052-38058	3.7	6
23	Hierarchical Macro-mesoporous Pt Deposits on Gold Microwires for Efficient Methanol Oxidation. <i>Electroanalysis</i> , 2013 , 25, 888-894	3	6
22	CoMFA and CoMSIA studies on a new series of xanthone derivatives against the oral human epidermoid carcinoma (KB) cancer cell line. <i>Monatshefte für Chemie</i> , 2009 , 140, 273-280	1.4	6
21	Sustainable utilization of waste glycerol for 1,3-propanediol production over Pt/WO/AlO catalysts: Effects of catalyst pore sizes and optimization of synthesis conditions. <i>Environmental Pollution</i> , 2021 , 272, 116029	9.3	6
20	Theoretical study of methane adsorption and C-H bond activation over Fe-embedded graphene: Effect of external electric field. <i>Journal of Computational Chemistry</i> , 2019 , 40, 2819-2826	3.5	5
19	Turn-on fluorescent sensor for the detection of lipopolysaccharides based on a novel bispyrenyl terephthalaldehyde-bis-guanylhydrazone. <i>New Journal of Chemistry</i> , 2019 , 43, 7051-7056	3.6	5
18	Independence of active substance profiles from the pulse response experimental procedure. <i>AICHE Journal</i> , 2013 , 59, 3574-3577	3.6	5

17	UNIFORMITY OF CHANGE IN POROUS CATALYST ACTIVITY DURING A MULTI-PULSE TAP EXPERIMENT. <i>Chemical Engineering Communications</i> , 2008 , 195, 1305-1314	2.2	5
16	Dehydrogenation of ethanol to acetaldehyde with nitrous oxide over the metal-organic framework NU-1000: a density functional theory study. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 13622-13628	3.6	4
15	Incorporation of Al Sites on Brønsted Acid Metal-Organic Frameworks for Glucose-to-Hydroxymethylfurfural Transformation. <i>Small</i> , 2021 , 17, e2006541	11	4
14	Anisotropic Metal Deposition on TiO ₂ Particles by Electric-Field-Induced Charge Separation. <i>Angewandte Chemie</i> , 2017 , 129, 11589-11593	3.6	3
13	When the final catalyst activity profile depends only on the total amount of admitted substance: Theoretical proof. <i>AIChE Journal</i> , 2015 , 61, 31-34	3.6	3
12	Understanding the interactions between lithium polysulfides and anchoring materials in advanced lithium-sulfur batteries using density functional theory.. <i>Physical Chemistry Chemical Physics</i> , 2022 ,	3.6	3
11	Precession Mechanism of Nematic Liquid Crystal Droplets under Low Power Optical Tweezers. <i>Ferroelectrics</i> , 2014 , 468, 114-122	0.6	2
10	Phenol Tautomerization Catalyzed by Acid-Base Pairs in Lewis Acidic Beta Zeolites: A Computational Study. <i>ChemPhysChem</i> , 2019 , 20, 2122-2126	3.2	1
9	CALCULATION OF PROCESSES RELEVANT TO REACTIONS BETWEEN NUCLEIC ACIDS AND FREE ELECTRONS. <i>Chemical Engineering Communications</i> , 2008 , 195, 1371-1381	2.2	1
8	Crystal Structures, Thermogravimetric and Magnetic Properties of Four Organodiamine Templated Vanadium Oxide Frameworks: Influences of Diaminoalkane Templates. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2008 , 18, 253-263	3.2	1
7	Crystal Structure, Thermal and Magnetic Behavior of Inorganic/Organic Hybrid [VIV ₄ O ₁₀ VV ₂ O ₄] (C ₆ H ₁₄ N ₂)·H ₂ O Polymeric Framework. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2006 , 16, 231-239	3.2	1
6	Sugar Conversion: Incorporation of Al ³⁺ Sites on Brønsted Acid Metal/Organic Frameworks for Glucose-to-Hydroxymethylfurfural Transformation (Small 22/2021). <i>Small</i> , 2021 , 17, 2170108	11	1
5	Innenrücktitelbild: Site-Selective Synthesis of Janus-type Metal-Organic Framework Composites (Angew. Chem. 15/2014). <i>Angewandte Chemie</i> , 2014 , 126, 4087-4087	3.6	
4	Innenrücktitelbild: Anisotropic Metal Deposition on TiO ₂ Particles by Electric-Field-Induced Charge Separation (Angew. Chem. 38/2017). <i>Angewandte Chemie</i> , 2017 , 129, 11813-11813	3.6	
3	A gold cyano complex in nitromethane: MD simulation and X-ray diffraction. <i>Chemical Physics Letters</i> , 2012 , 539-540, 24-29	2.5	
2	Preparation and Characterization of Bis(1,2-diaminoethane)cobalt(II) Hexavanadate: A Layered Polyoxovanadate Pillared by a Cobalt Coordination Complex. <i>Journal of Chemical Crystallography</i> , 2009 , 39, 525-529	0.5	
1	Inside Cover: Oxidative Dehydrogenation of Propane over a VO ₂ -Exchanged MCM-22 Zeolite: A DFT Study (ChemPhysChem 16/2010). <i>ChemPhysChem</i> , 2010 , 11, 3370-3370	3.2	