

Jyh-Chiang Jiang

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151
papers

3,444
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h-index

49
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156
ext. papers

3,735
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
151	Infrared Spectra of H ⁺ (H ₂ O) ₅₋₈ Clusters: Evidence for Symmetric Proton Hydration. <i>Journal of the American Chemical Society</i> , 2000 , 122, 1398-1410	16.4	309
150	Protonated clathrate cages enclosing neutral water molecules: (H ⁺)(H ₂ O) ₂₁ and (H ⁺)(H ₂ O) ₂₈ . <i>Journal of Chemical Physics</i> , 2005 , 122, 074315	3.9	139
149	Molecular Design of Porphyrins for Dye-Sensitized Solar Cells: A DFT/TDDFT Study. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 524-30	6.4	104
148	Structures and Isomeric Transitions of NH ₄ ⁺ (H ₂ O) ₃₋₆ : From Single to Double Rings. <i>Journal of the American Chemical Society</i> , 1998 , 120, 8777-8788	16.4	104
147	Efficient hydrogen storage in boron doped graphene decorated by transition metals [A] first-principles study. <i>Carbon</i> , 2014 , 73, 132-140	10.4	99
146	Hydrogen bond stabilization in 1,3-dimethylimidazolium methyl sulfate and 1-butyl-3-methylimidazolium hexafluorophosphate probed by high pressure: the role of charge-enhanced C-H...O interactions in the room-temperature ionic liquid. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 3302-7	3.4	96
145	Structural organization in aqueous solutions of 1-Butyl-3-methylimidazolium halides: a high-pressure infrared spectroscopic study on ionic liquids. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 4351-6	3.4	78
144	C-H Bond Activation of Methane via π Interaction on the IrO ₂ (110) Surface: Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 6367-6370	3.8	75
143	Cooperative effect of unsheltered amide groups on CO ₂ adsorption inside open-ended channels of a zinc(II)-organic framework. <i>Inorganic Chemistry</i> , 2013 , 52, 3962-8	5.1	71
142	Theoretical study on the correlation between band gap, bandwidth, and oscillator strength in fluorene-based donor-acceptor conjugated copolymers. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 8268-77	3.4	64
141	Evidence of rotational isomerism in 1-butyl-3-methylimidazolium halides: a combined high-pressure infrared and Raman spectroscopic study. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 9201-6	2.8	60
140	C-H...O hydrogen bonds in beta-sheetlike networks: combined X-ray crystallography and high-pressure infrared study. <i>Journal of the American Chemical Society</i> , 2003 , 125, 12358-64	16.4	57
139	Isomeric Transitions between Linear and Cyclic H ⁺ (CH ₃ OH) _{4,5} : Implications for Proton Migration in Liquid Methanol. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 2941-2944	2.8	56
138	Theoretical study of the reductive decomposition of ethylene sulfite: a film-forming electrolyte additive in lithium ion batteries. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 11025-33	2.8	51
137	Migration of an Excess Proton upon Asymmetric Hydration: H ⁺ [(CH ₃) ₂ ZO](H ₂ O) _n as a Model System. <i>Journal of the American Chemical Society</i> , 1999 , 121, 4443-4450	16.4	48
136	Effects of water and methanol on the molecular organization of 1-butyl-3-methylimidazolium tetrafluoroborate as functions of pressure and concentration. <i>Journal of Chemical Physics</i> , 2008 , 129, 044506	3.9	45
135	Theoretical study of the reductive decomposition of 1,3-propane sultone: SEI forming additive in lithium-ion batteries. <i>RSC Advances</i> , 2012 , 2, 5439	3.7	42

134	Lithium diffusion in graphene and graphite: Effect of edge morphology. <i>Carbon</i> , 2016 , 103, 209-216	10.4	40
133	Photoisomerization and photodissociation of toluene in molecular beam. <i>Journal of the American Chemical Society</i> , 2002 , 124, 4068-75	16.4	39
132	Comparative Study on the Solid Electrolyte Interface Formation by the Reduction of Alkyl Carbonates in Lithium ion Battery. <i>Electrochimica Acta</i> , 2014 , 136, 274-285	6.7	38
131	Structural change of ionic association in ionic liquid/water mixtures: a high-pressure infrared spectroscopic study. <i>Journal of Chemical Physics</i> , 2009 , 130, 124503	3.9	38
130	Novel triarylamine-based alternating conjugated polymer with high hole mobility: Synthesis, electro-optical, and electronic properties. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 4654-4667	2.5	38
129	High-pressure spectroscopic probe of hydrophobic hydration of the methyl groups in dimethyl sulfoxide. <i>Journal of Chemical Physics</i> , 2003 , 118, 1802-1807	3.9	37
128	First principles study of organic sensitizers for dye sensitized solar cells: effects of anchoring groups on optoelectronic properties and dye aggregation. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 1071-81	3.6	36
127	Design strategies of metal free-organic sensitizers for dye sensitized solar cells: Role of donor and acceptor monomers. <i>Organic Electronics</i> , 2014 , 15, 1205-1214	3.5	36
126	Novel rapid switching and bleaching electrochromic polyimides containing triarylamine with 2-phenyl-2-isopropyl groups. <i>Polymer</i> , 2010 , 51, 4493-4502	3.9	33
125	A First Principles study on Boron-doped Graphene decorated by Ni-Ti-Mg atoms for Enhanced Hydrogen Storage Performance. <i>Scientific Reports</i> , 2015 , 5, 16797	4.9	32
124	Preparation and oxygen reduction activity of stable RuSex/C catalyst with pyrite structure. <i>Electrochimica Acta</i> , 2009 , 54, 4297-4304	6.7	31
123	Photodissociation of ethylbenzene and n-propylbenzene in a molecular beam. <i>Journal of Chemical Physics</i> , 2002 , 117, 7034-7040	3.9	31
122	Conformations of 1-Butyl-3-methylimidazolium Chloride Probed by High Pressure Raman Spectroscopy. <i>International Journal of Molecular Sciences</i> , 2006 , 7, 417-424	6.3	30
121	Evidence of charge-enhanced C _H ⋯O interactions in aqueous protonated imidazole probed by high pressure infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2003 , 119, 10753-10758	3.9	30
120	Evidence for hydrogen bond-like C _H ⋯O interactions in aqueous 1,4-dioxane probed by high pressure. <i>Chemical Physics Letters</i> , 2004 , 397, 205-210	2.5	29
119	Effect of External Electric Field on Methane Conversion on IrO ₂ (110) Surface: A Density Functional Theory Study. <i>ACS Catalysis</i> , 2019 , 9, 8230-8242	13.1	27
118	Solvation and microscopic properties of ionic liquid/acetonitrile mixtures probed by high-pressure infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2009 , 131, 234502	3.9	27
117	Interactions of Silica Nanoparticles and Ionic Liquids Probed by High Pressure Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 11962-11967	3.8	26

116	Ab initio study of the ammoniated ammonium ions $\text{NH}_4^+(\text{NH}_3)_0\text{B}$. <i>Chemical Physics</i> , 2002 , 276, 93-106	2.3	26
115	Evidence for C ₆ H ₆ interaction of acetone and deuterium oxide probed by high-pressure. <i>Journal of Chemical Physics</i> , 2001 , 115, 3215-3218	3.9	26
114	Aqueous solution-processed off-stoichiometric CuInS ₂ QDs and their application in quantum dot-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 9629-9641	13	25
113	Association structures of ionic liquid/DMSO mixtures studied by high-pressure infrared spectroscopy. <i>Journal of Chemical Physics</i> , 2011 , 134, 044506	3.9	25
112	Photoionization of methanol dimer using a tunable vacuum ultraviolet laser. <i>Journal of Chemical Physics</i> , 1999 , 111, 3434-3440	3.9	25
111	Hydrogen-Bond Rearrangement and Intermolecular Proton Transfer in Protonated Methanol Clusters. <i>Israel Journal of Chemistry</i> , 1999 , 39, 231-243	3.4	25
110	A High-Pressure Study of the Effects of TiO ₂ Nanoparticles on the Structural Organization of Ionic Liquids. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 23778-23783	3.8	24
109	The intramolecular blue-shifting C ₆ H ₅ F ₅ hydrogen bond: crystal structure of [4,4'-bis(HCF ₂ CF ₂ CF ₂ CH ₂ OCH ₂)-2,2'-bpy]MCl ₂ where M = Pt, Pd. <i>CrystEngComm</i> , 2010 , 12, 538-542	3.3	24
108	Carbon-carbon bond cleavage in the photoionization of ethanol and 1-propanol clusters. <i>Journal of Chemical Physics</i> , 2004 , 120, 8979-84	3.9	24
107	Photodissociation dynamics of fluorobenzene. <i>Journal of the American Chemical Society</i> , 2003 , 125, 9814-9814	3.4	24
106	Probing C-H...X hydrogen bonds in amide-functionalized imidazolium salts under high pressure. <i>Journal of Chemical Physics</i> , 2004 , 120, 8645-50	3.9	24
105	Photodissociation of ethylbenzene at 248 nm. <i>Journal of Chemical Physics</i> , 2002 , 116, 7779-7782	3.9	24
104	Charge-enhanced C ₆ H ₆ interactions of a self-assembled triple helical spine probed by high-pressure. <i>Journal of Chemical Physics</i> , 2002 , 117, 1723-1728	3.9	24
103	Transmissive-to-black fast electrochromic switching from a long conjugated pendant group and a highly dispersed polymer/SWNT. <i>Polymer Chemistry</i> , 2018 , 9, 619-626	4.9	23
102	Revealing the influence of Cyano in Anchoring Groups of Organic Dyes on Adsorption Stability and Photovoltaic Properties for Dye-Sensitized Solar Cells. <i>Scientific Reports</i> , 2017 , 7, 4979	4.9	23
101	Oxidative decomposition of propylene carbonate in lithium ion batteries: a DFT study. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 7959-69	2.8	22
100	Probing the Nature and Local Structure of Phosphonic Acid Groups Functionalized in Mesoporous Silica SBA-15. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1658-1669	3.8	22
99	Adsorption and Thermal Reactions of H ₂ O and H ₂ S on Ge(100). <i>Journal of Physical Chemistry C</i> , 2010 , 114, 1019-1027	3.8	22

98	Density Functional Theory Study of the Oxidation of Ammonia on RuO ₂ (110) Surface. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 17411-17417	3.8	22
97	DFT Study of NH _x (x = 1B) Adsorption on RuO ₂ (110) Surfaces. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 2816-2821	3.8	22
96	Hydrogen bond-like equatorial C-H...O interactions in aqueous 1,3-dioxane: A combined high-pressure infrared and Raman spectroscopy study. <i>Chemical Physics Letters</i> , 2005 , 410, 42-48	2.5	22
95	Novel poly(triphenylamine-alt-fluorene) with asymmetric hexaphenylbenzene and pyrene moieties: synthesis, fluorescence, flexible near-infrared electrochromic devices and theoretical investigation. <i>Polymer Chemistry</i> , 2016 , 7, 1505-1516	4.9	21
94	Boron and Nitrogen Co-doped Graphene Used As Counter Electrode for Iodine Reduction in Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 26385-26392	3.8	21
93	Barrierless proton transfer within short protonated peptides in the presence of water bridges. A density functional theory study. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 1485-90	3.4	20
92	Deoxygenation of IrO ₂ (110) surface: Core-level spectroscopy and density functional theory calculation. <i>Surface Science</i> , 2010 , 604, 118-124	1.8	20
91	Experimental and theoretical investigation of a new rapid switching near-infrared electrochromic conjugated polymer. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 3913-3923	2.5	20
90	Correlation of Mesh Size of Metal-Organic Framework Carboxylate Layer with Degree of Interpenetration in Pillared-Layer Frameworks. <i>Crystal Growth and Design</i> , 2014 , 14, 5608-5616	3.5	19
89	Theoretical investigations of metal-free dyes for solar cells: Effects of electron donor and acceptor groups on sensitizers. <i>Journal of Power Sources</i> , 2013 , 242, 464-471	8.9	18
88	Density Functional Theory Study of NH _x (x = 0B) and N ₂ Adsorption on IrO ₂ (110) Surfaces. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 18588-18593	3.8	18
87	A DFT study of ethanol adsorption and decomposition on Al ₂ O ₃ (0001) surface. <i>Applied Surface Science</i> , 2016 , 363, 636-643	6.7	17
86	Density functional theory study of the oxidation of ammonia on the IrO ₂ (110) surface. <i>Langmuir</i> , 2011 , 27, 14253-9	4	17
85	A DFT study of ethane activation on IrO ₂ (110) surface by precursor-mediated mechanism. <i>Applied Catalysis A: General</i> , 2017 , 541, 8-14	5.1	16
84	A combined experimental and theoretical study of surface film formation: Effect of oxygen on the reduction mechanism of propylene carbonate. <i>Journal of Power Sources</i> , 2013 , 244, 318-327	8.9	16
83	On the search for C-H...O hydrogen bonding in aqueous acetic acid: Combined high-pressure infrared spectroscopy and ab initio calculations study. <i>Journal of Chemical Physics</i> , 2002 , 117, 3799-3803	3.9	16
82	Microkinetic Simulation of Ammonia Oxidation on the RuO ₂ (110) Surface. <i>ACS Catalysis</i> , 2014 , 4, 639-648	3.1	15
81	Conjugated polymers containing electron-deficient main chains and electron-rich pendant groups: Synthesis and application to electroluminescence. <i>Organic Electronics</i> , 2011 , 12, 1048-1062	3.5	15

80	Local structures of water in 1-butyl-3-methylimidazolium tetrafluoroborate probed by high-pressure infrared spectroscopy. <i>Analytical Sciences</i> , 2008 , 24, 1305-9	1.7	15
79	High-pressure Raman studies on aqueous protonated thiazole: presence of charge-enhanced C-H...O hydrogen bonds. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 23103-7	3.4	15
78	Pressure-Enhanced C-H...O Interactions in Aqueous tert-Butyl Alcohol. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 11001-11005	2.8	15
77	In situ spectroscopic and theoretical investigation of methane activation on IrO ₂ nanoparticles: Role of Ir oxidation state on C-H activation. <i>Journal of Catalysis</i> , 2020 , 385, 265-273	7.3	15
76	Enhanced moisture stability of cesium lead iodide perovskite solar cells - a first-principles molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 5693-5701	3.6	14
75	Photoisomerization and Photodissociation of m-Xylene in a Molecular Beam. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 4019-4024	2.8	14
74	Amide-containing zinc(II) metal-organic layered networks: a structure-CO ₂ capture relationship. <i>Inorganic Chemistry Frontiers</i> , 2015 , 2, 477-484	6.8	13
73	Methanol decomposition reactions over a boron-doped graphene supported Ru-Pt catalyst. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 9355-9363	3.6	13
72	Microkinetic Simulation of Temperature-Programmed Desorption. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 6136-6142	3.8	13
71	Neutrally colourless, transparent and thermally stable polynorbornenes via ring-opening metathesis polymerisation for near-infrared electroactive applications. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8597		13
70	A high-pressure infrared spectroscopic study on the interaction of ionic liquids with PEO-PPO-PEO block copolymers and 1,4-dioxane. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 883-8	3.4	13
69	Synthesis and computational oxidation mechanism study of novel organosoluble aramids with high modulus by low-temperature solution polycondensation. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 5659-5669	2.5	13
68	On the Search for H ₂ O ₂ -centered Water Clusters in the Gas Phase. <i>Journal of the Chinese Chemical Society</i> , 1999 , 46, 427-434	1.5	13
67	Dopamine sensing by boron and nitrogen co-doped single-walled carbon nanotubes: A first-principles study. <i>Applied Surface Science</i> , 2019 , 473, 59-64	6.7	13
66	Theoretical study on molecular design and optical properties of organic sensitizers. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 15389-99	3.6	12
65	Proton-Assisted Hydration at Hydrophobic Sites in Protonated Ether and Keto Dimers. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 8753-8761	2.8	12
64	Amide-CO ₂ Interaction Induced Gate-Opening Behavior for CO ₂ Adsorption in 2-Fold Interpenetrating Framework. <i>ChemistrySelect</i> , 2016 , 1, 2923-2929	1.8	11
63	High-Purity Semiconducting Single-Walled Carbon Nanotubes via Selective Dispersion in Solution Using Fully Conjugated Polytriarylaminines. <i>Macromolecules</i> , 2016 , 49, 8520-8529	5.5	11

62	Density functional theory study of ethanol decomposition on 3Ni/Al ₂ O ₃ (0001) surface. <i>Langmuir</i> , 2010 , 26, 15845-51	4	11
61	The role of charge-enhanced C ₆₀ O interactions in gel-like mixtures prepared from ionic liquids and tungsten(VI) oxide nanoparticles. <i>Chemical Physics Letters</i> , 2006 , 427, 310-316	2.5	11
60	Comparative Studies of H ⁺ (C ₆ H ₆)(H ₂ O) _{1,2} and H ⁺ (C ₅ H ₅ N)(H ₂ O) _{1,2} by DFT Calculations and IR Spectroscopy. <i>Australian Journal of Chemistry</i> , 2004 , 57, 1153	1.2	11
59	New Insights into the N-S Bond Formation of a Sulfurized-Polyacrylonitrile Cathode Material for Lithium-Sulfur Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 14230-14238	9.5	11
58	Understanding the Role of Dopant Metal Atoms on the Structural and Electronic Properties of Lithium-Rich LiNiMnO Cathode Material for Lithium-Ion Batteries. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4842-4850	6.4	10
57	Surface Raman Spectroscopy of trans-Stilbene on Ag/Ge(111): Surface-Induced Effects. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 208-212	3.8	10
56	Characterization of extraframework aluminum in H-mordenite dealuminated with ammonium hexafluorosilicate. <i>Catalysis Today</i> , 2004 , 97, 13-23	5.3	10
55	Initial growth of chemical-vapor-deposited Ru from bis(hexafluoroacetylacetonate)dicarbonyl ruthenium. <i>Thin Solid Films</i> , 2005 , 483, 31-37	2.2	10
54	Effects of the terminal donor unit in dyes with D-D- π A architecture on the regeneration mechanism in DSSCs: a computational study. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 23564-23577	3.6	10
53	A first principles study of CO oxidation over gold clusters: The catalytic role of boron nitride support and water. <i>Molecular Catalysis</i> , 2019 , 471, 44-53	3.3	9
52	Pressure-enhanced surface interactions between nano-TiO ₂ and ionic liquid mixtures probed by high pressure IR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 21143-8	3.6	9
51	Adsorption and Decomposition of Ethylene Carbonate on LiMn ₂ O ₄ Cathode Surface. <i>Electrochimica Acta</i> , 2016 , 210, 61-70	6.7	9
50	Density Functional Theory Study of Water-Gas-Shift Reaction on 3Cu/Al ₂ O ₃ (0001) Surface. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 12045-12053	3.8	9
49	Preparation of neutrally colorless, transparent polynorbornenes with multiple redox-active chromophores via ring-opening metathesis polymerization toward electrochromic applications. <i>Journal of Polymer Science Part A</i> , 2011 , 49, 3248-3259	2.5	9
48	Mechanism of growth of the Ge wetting layer upon exposure of Si(100)-2 x 1 to GeH ₄ . <i>Journal of the American Chemical Society</i> , 2008 , 130, 5440-2	16.4	9
47	Temperature-programmed desorption studies of NH and HO on the RuO(110) surface: effects of adsorbate diffusion. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 24201-24209	3.6	9
46	New Insights into Organic Dye Regeneration Mechanism in Dye-Sensitized Solar Cells: A Theoretical Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 8619-8629	8.3	8
45	Application of Density Functional Theory and Photoelectron Spectra to the Adsorption and Reaction of H ₂ S on Si (100). <i>Journal of Physical Chemistry C</i> , 2011 , 115, 19203-19209	3.8	8

44	Energetics and Rate Constants of Si ₂ H ₆ and Ge ₂ H ₆ Dissociative Adsorption on Dimers of SiGe(100)-2 \times 1. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 13466-13472	3.8	8
43	The effect of pressure on charge-enhanced C≡N \cdots O interactions in aqueous triethylamine hydrochloride probed by high pressure Raman spectroscopy. <i>Chemical Physics Letters</i> , 2006 , 432, 100-105	2.5	8
42	DFT study on dissociative adsorption of SiH ₄ and GeH ₄ on SiGe(100)-2 \times 1 surface. <i>Surface Science</i> , 2006 , 600, 3194-3201	1.8	8
41	Pressure-dependent studies on hydration of the C≡N group in formic acid. <i>Journal of Chemical Physics</i> , 2001 , 115, 8032-8037	3.9	8
40	Reduction mechanism of iron titanium based oxygen carriers with H ₂ for chemical looping applications: a combined experimental and theoretical study. <i>RSC Advances</i> , 2016 , 6, 106340-106346	3.7	8
39	Effect of solvent proton affinity on the kinetics of michael addition polymerization of n,n'-bismaleimide-4,4'-diphenylmethane with barbituric acid. <i>Polymer Engineering and Science</i> , 2014 , 54, 559-568	2.3	7
38	Theoretical Study of Electrochemical and Electrochromic Properties of Novel Viologen Derivatives: Effects of Donors and π -Conjugation. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 4735-4744	3.4	6
37	A first principles study of H ₂ S adsorption and decomposition on a Ge(100) surface. <i>RSC Advances</i> , 2015 , 5, 3825-3832	3.7	6
36	Enhancement of chlorobenzene sensing by doping aluminum on nanotubes: A DFT study. <i>Applied Surface Science</i> , 2020 , 514, 145897	6.7	6
35	Quantum Chemical Studies of Methane Oxidation to Methanol on a Biomimetic Tricopper Complex: Mechanistic Insights. <i>ChemistrySelect</i> , 2018 , 3, 5113-5122	1.8	6
34	Specific interactions between the quaternary ammonium oligoether-based ionic liquid and water as a function of pressure. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 12734-41	3.6	6
33	Intermolecular Interactions in Aqueous Dimethyl Sulphoxide and Acetic Acid Probed by High-Pressure FTIR. <i>Journal of the Chinese Chemical Society</i> , 2002 , 49, 663-667	1.5	5
32	Theoretical study on halide and mixed halide Perovskite solar cells: Effects of halide atoms on the stability and electronic properties. <i>Journal of the Chinese Chemical Society</i> , 2019 , 66, 575-582	1.5	5
31	A theoretical design of some silole-based dibenzothiophene-S,S-dioxide semiconducting compounds for red phosphorescence. <i>Organic Electronics</i> , 2018 , 54, 270-276	3.5	4
30	Theoretical Study of the Reductive Decomposition of Vinylethylene Sulfite as an Additive in Lithium Ion Battery. <i>Journal of the Chinese Chemical Society</i> , 2016 , 63, 480-487	1.5	4
29	Theoretical studies on effective metal-to-ligand charge transfer characteristics of novel ruthenium dyes for dye sensitized solar cells. <i>Journal of Computer-Aided Molecular Design</i> , 2014 , 28, 565-75	4.2	4
28	Spin-polarized transport properties in some transition metal dithiolene complexes. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 32536-32543	3.6	4
27	Unraveling Molecular Adsorption with Surface Raman Spectroscopy: trans-Stilbene, trans,trans-Distyrylbenzene, and trans-Azobenzene on Ag/Ge(111). <i>Journal of Physical Chemistry C</i> , 2011 , 115, 516-520	3.8	4

26	Study of Pathway of Hydrogen Migration and Desorption on SiGe(100) Surface Using Ab Initio Calculations. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 7625-7633	1.4	4
25	Comparable catalytic activity of a low-cost catalyst IrO ₂ /TiO ₂ for methane conversion [A density functional theory study. <i>Applied Surface Science</i> , 2021 , 151938	6.7	4
24	Theoretical study on the interaction of iodide electrolyte/organic dye with the TiO surface in dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 26410-26418	3.6	4
23	Effects of Electric Field on the Performance of Graphene-Based Counter Electrodes for Dye-Sensitized Solar Cells: A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 30373-30381	3.8	4
22	A computational study of CO oxidation on IrO ₂ (1 1 0) surface. <i>Applied Surface Science</i> , 2021 , 539, 148246	6.7	4
21	Tuning Interfacial Thermal and Electrical Conductance across a Metal/MoS ₂ Monolayer through N-Methyl-2-pyrrolidone Wet Cleaning. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000364	4.6	3
20	Silole and selenophene-based D-πA dyes in dye-sensitized solar cells: Insights from optoelectronic and regeneration properties. <i>Dyes and Pigments</i> , 2020 , 176, 108243	4.6	3
19	Theoretical study on wetting behavior of B-SWNT: Effects of doping concentration. <i>Applied Surface Science</i> , 2019 , 497, 143798	6.7	3
18	Effects of hydrogen on GaN metalorganic vapor-phase epitaxy using tertiarybutylhydrazine as nitrogen source. <i>Journal of Crystal Growth</i> , 2004 , 266, 347-353	1.6	3
17	B, N-co-doped graphene-supported Ir and Pt clusters for methane activation and C-C coupling: A density functional theory study. <i>Journal of Computational Chemistry</i> , 2020 , 41, 194-202	3.5	3
16	A First Study of the Kinetics of Metal Ion Adsorption at Solid/Liquid Interface Using Evanescent Wave-Based Optical Microfiber. <i>IEEE Sensors Journal</i> , 2020 , 1-1	4	2
15	Photodissociation and photoisomerization of alpha-fluorotoluene and 4-fluorotoluene in a molecular beam. <i>Journal of Chemical Physics</i> , 2006 , 125, 133305	3.9	2
14	Hydrophobic hydration in aqueous acetic acid and formic acid solutions probed by high pressure. <i>Journal of Luminescence</i> , 2002 , 98, 177-182	3.8	2
13	Theoretical insight into hydroxyl production HO decomposition over the FeO(311) surface.. <i>RSC Advances</i> , 2021 , 11, 36257-36264	3.7	2
12	Elucidating the Improved Electrolyte Stability with Novel Benzimidazole Salt on the Li Anode Surface: Insights into Interfacial Reactions. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 23523-23531	3.8	2
11	Combined Density Functional Theory and Microkinetics Study to Predict Optimum Operating Conditions of Si(100) Surface Carbonization by Acetylene for High Power Devices. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4558-4568	6.4	2
10	A first-principles study on double-sided decorated boron-nitrogen co-doped graphene by vanadium for enhanced low-temperature reversible hydrogen storage. <i>Sustainable Energy and Fuels</i> , 2021 , 5, 2159-2168	5.8	2
9	Theoretical investigation of CO ₂ conversion on corrugated g-C ₃ N ₄ Surface decorated by single-atom of Fe, Co, and Pd. <i>Molecular Catalysis</i> , 2022 , 526, 112402	3.3	2

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7	Quantum chemical study on the gas-phase reaction of tertiarybutylhydrazine: A potential nitrogen-bearing compound for GaN film growth. <i>Thin Solid Films</i> , 2006 , 498, 100-107	2.2	1
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1	The role of π donors/acceptors in molecular rotors towards development of ambient blue light sensors - A density functional theory study. <i>Materials Chemistry and Physics</i> , 2022 , 277, 125563	4.4	