

Jos R B Gomes

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230
papers

5,688
citations

40
h-index

55
g-index

246
ext. papers

6,355
ext. citations

5.1
avg, IF

6.11
L-index

#	Paper	IF	Citations
230	Understanding the reactivity of metallic nanoparticles: beyond the extended surface model for catalysis. <i>Chemical Society Reviews</i> , 2014 , 43, 4922-39	58.5	132
229	Accounting for van der Waals interactions between adsorbates and surfaces in density functional theory based calculations: selected examples. <i>RSC Advances</i> , 2013 , 3, 13085	3.7	120
228	Influence of step sites in the molecular mechanism of the water gas shift reaction catalyzed by copper. <i>Journal of Catalysis</i> , 2009 , 268, 131-141	7.3	88
227	"Recycling" classical drugs for malaria. <i>Chemical Reviews</i> , 2014 , 114, 11164-220	68.1	84
226	Density functional theory study of the water dissociation on platinum surfaces: general trends. <i>Journal of Physical Chemistry A</i> , 2014 , 118, 5832-40	2.8	82
225	Effect of the exchange-correlation potential and of surface relaxation on the description of the H(2)O dissociation on Cu(111). <i>Journal of Chemical Physics</i> , 2009 , 130, 224702	3.9	79
224	Good performance of the M06 family of hybrid meta generalized gradient approximation density functionals on a difficult case: CO adsorption on MgO(001). <i>Journal of Chemical Physics</i> , 2008 , 129, 124710	3.9	76
223	Structure of Chemisorbed CO(2) Species in Amine-Functionalized Mesoporous Silicas Studied by Solid-State NMR and Computer Modeling. <i>Journal of the American Chemical Society</i> , 2017 , 139, 389-408	16.4	75
222	Descriptors controlling the catalytic activity of metallic surfaces toward water splitting. <i>Journal of Catalysis</i> , 2010 , 276, 92-100	7.3	74
221	Theoretical study of bulk and surface oxygen and aluminum vacancies in Al ₂ O ₃ . <i>Physical Review B</i> , 2004 , 69,	3.3	74
220	A DFT study of the methanol oxidation catalyzed by a copper surface. <i>Surface Science</i> , 2001 , 471, 59-70	1.8	70
219	Salting-in with a salting-out agent: explaining the cation specific effects on the aqueous solubility of amino acids. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 6116-28	3.4	65
218	Modeling adsorption in metal-organic frameworks with open metal sites: propane/propylene separations. <i>Langmuir</i> , 2012 , 28, 8537-49	4	64
217	Falcipains, Plasmodium falciparum cysteine proteases as key drug targets against malaria. <i>Current Medicinal Chemistry</i> , 2011 , 18, 1555-72	4.3	63
216	Computational approaches to study adsorption in MOFs with unsaturated metal sites. <i>Molecular Simulation</i> , 2014 , 40, 537-556	2	62
215	DFT Study of the CO Oxidation on the Au(321) Surface. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17291-17306	1.7	61
214	On the theoretical understanding of the unexpected O ₂ activation by nanoporous gold. <i>Chemical Communications</i> , 2011 , 47, 8403-5	5.8	60

213	Molecular dynamics simulation of diffusion coefficients and structural properties of ketones in supercritical CO ₂ at infinite dilution. <i>Journal of Supercritical Fluids</i> , 2016 , 107, 630-638	4.2	59
212	Understanding Gas adsorption selectivity in IRMOF-8 using molecular simulation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 624-37	9.5	59
211	Adsorption of Atomic and Molecular Oxygen on the Au(321) Surface: DFT Study. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 17311-17321	3.8	59
210	Molecular dynamics simulation studies of the interactions between ionic liquids and amino acids in aqueous solution. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 1831-42	3.4	55
209	Standard molar enthalpies of formation, vapour pressures, and enthalpies of sublimation of 2-chloro-4-nitroaniline and 2-chloro-5-nitroaniline. <i>Journal of Chemical Thermodynamics</i> , 2003 , 35, 1343-1359	2.9	55
208	Amine Functionalized porous silica for CO ₂ /CH ₄ separation by adsorption: Which amine and why. <i>Chemical Engineering Journal</i> , 2018 , 336, 612-621	14.7	54
207	The structural relaxation of the α -Al ₂ O ₃ (0001) α -An investigation of potential errors. <i>Chemical Physics Letters</i> , 2001 , 341, 412-418	2.5	53
206	Control of crystallite and particle size in the synthesis of layered double hydroxides: Macromolecular insights and a complementary modeling tool. <i>Journal of Colloid and Interface Science</i> , 2016 , 468, 86-94	9.3	51
205	Solvent and Structural Effects in the N-H Bond Homolytic Dissociation Energy. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 2119-2130	2.8	51
204	Density functional study of CO and NO adsorption on Ni-doped MgO(100). <i>Journal of Chemical Physics</i> , 2010 , 132, 104701	3.9	50
203	Adsorption of the formate species on copper surfaces: a DFT study. <i>Surface Science</i> , 1999 , 432, 279-290	1.8	50
202	Density functional theory model study of size and structure effects on water dissociation by platinum nanoparticles. <i>Journal of Chemical Physics</i> , 2012 , 137, 034701	3.9	49
201	MXenes as promising catalysts for water dissociation. <i>Applied Catalysis B: Environmental</i> , 2020 , 260, 1181918	2.1	49
200	Accurate Model for Predicting Adsorption of Olefins and Paraffins on MOFs with Open Metal Sites. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 15475-15487	3.9	48
199	Enhancement of Ethane Selectivity in Ethane-Ethylene Mixtures by Perfluoro Groups in Zr-Based Metal-Organic Frameworks. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 27410-27421	9.5	47
198	N-cinnamoylated chloroquine analogues as dual-stage antimalarial leads. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 556-67	8.3	46
197	On the geometric structure of the (0 0 0 1) hematite surface. <i>Surface Science</i> , 2004 , 558, 4-14	1.8	46
196	Corrosion inhibition of copper in aqueous chloride solution by 1H-1,2,3-triazole and 1,2,4-triazole and their combinations: electrochemical, Raman and theoretical studies. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 6113-6129	3.6	44

195	DFT study of the adsorption of D-(L)-cysteine on flat and chiral stepped gold surfaces. <i>Langmuir</i> , 2013 , 29, 8856-64	4	44
194	Novel cinnamic acid/4-aminoquinoline conjugates bearing non-proteinogenic amino acids: towards the development of potential dual action antimalarials. <i>European Journal of Medicinal Chemistry</i> , 2012 , 54, 887-99	6.8	44
193	Surface model and exchange-correlation functional effects on the description of Pd/PtAl ₂ O ₃ (0001). <i>Journal of Chemical Physics</i> , 2002 , 116, 1684-1691	3.9	44
192	Vapor-Liquid Equilibria of Imidazolium Ionic Liquids with Cyano Containing Anions with Water and Ethanol. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 10287-303	3.4	41
191	Combined experimental and computational study of the thermochemistry of the fluoroaniline isomers. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 2052-61	3.4	40
190	Thermochemistry of nitronaphthalenes and nitroanthracenes. <i>Journal of Chemical Thermodynamics</i> , 2006 , 38, 748-755	2.9	40
189	Experimental and computational investigation of the energetics of the three isomers of monochloroaniline. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 13356-62	3.4	40
188	Gas-Phase Thermodynamic Properties of Dichlorophenols Determined from Density Functional Theory Calculations. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 869-874	2.8	40
187	Generalized Brønsted-Evans-Polanyi relationships and descriptors for O-H bond cleavage of organic molecules on transition metal surfaces. <i>Journal of Catalysis</i> , 2014 , 313, 24-33	7.3	39
186	Combining multinuclear high-resolution solid-state MAS NMR and computational methods for resonance assignment of glutathione tripeptide. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 6711-9	2.8	39
185	Bifunctional mixed-lanthanide cyano-bridged coordination polymers Ln _{0.5} Ln _{0.5} (H ₂ O) ₅ [W(CN) ₈] (Ln/Ln ^{III} = Eu ³⁺ /Tb ³⁺ , Eu ³⁺ /Gd ³⁺ , Tb ³⁺ /Sm ³⁺). <i>Inorganic Chemistry</i> , 2012 , 51, 9005-16	5.1	39
184	Viral surface glycoproteins, gp120 and gp41, as potential drug targets against HIV-1: brief overview one quarter of a century past the approval of zidovudine, the first anti-retroviral drug. <i>European Journal of Medicinal Chemistry</i> , 2011 , 46, 979-92	6.8	39
183	First-principles study of the adsorption of formaldehyde on the clean and atomic oxygen covered Cu(1 1 1) surface. <i>Journal of Molecular Catalysis A</i> , 2001 , 170, 187-193		39
182	Slow release of NO by microporous titanosilicate ETS-4. <i>Journal of the American Chemical Society</i> , 2011 , 133, 6396-402	16.4	38
181	The Role of Preadsorbed Atomic Hydrogen in the NO Dissociation on a Zigzag Stepped Gold Surface: A DFT Study. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 8864-8877	3.8	38
180	Molecular simulation of silica/surfactant self-assembly in the synthesis of periodic mesoporous silicas. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15414-5	16.4	38
179	Mechanistic Study of Carbon Monoxide Methanation over Pure and Rhodium- or Ruthenium-Doped Nickel Catalysts. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16537-16551	3.8	37
178	Interaction of CO ₂ and CH ₄ with Functionalized Periodic Mesoporous PhenyleneSilica: Periodic DFT Calculations and Gas Adsorption Measurements. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3863-3875	3.8	36

177	Adsorption of Small Palladium Clusters on the Relaxed α -Al ₂ O ₃ (0001) Surface. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 6411-6424	3.4	36
176	Molecular dynamics simulation of the early stages of the synthesis of periodic mesoporous silica. <i>Journal of Physical Chemistry B</i> , 2009 , 113, 708-18	3.4	35
175	Experimental and computational study on the molecular energetics of indoline and indole. <i>Journal of Physical Chemistry A</i> , 2008 , 112, 12263-9	2.8	35
174	Novel insights into biomass delignification with acidic deep eutectic solvents: a mechanistic study of C-O-4 ether bond cleavage and the role of the halide counterion in the catalytic performance. <i>Green Chemistry</i> , 2020 , 22, 2474-2487	10	34
173	Thermochemistry of some alkylsubstituted anthracenes. <i>Journal of Chemical Thermodynamics</i> , 2006 , 38, 367-375	2.9	34
172	Experimental and Computational Study on the Thermochemistry of Bromoanilines. <i>Bulletin of the Chemical Society of Japan</i> , 2006 , 79, 1852-1859	5.1	34
171	Water adsorption on a copper formate paddlewheel model of CuBTC: A comparative MP2 and DFT study. <i>Chemical Physics Letters</i> , 2013 , 587, 7-13	2.5	33
170	Modeling self-assembly of silica/surfactant mesostructures in the templated synthesis of nanoporous solids. <i>Langmuir</i> , 2013 , 29, 2387-96	4	33
169	Energetic studies and phase diagram of thioxanthene. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 12988-98	2.4	33
168	Revisiting dibenzothiophene thermochemical data: Experimental and computational studies. <i>Journal of Chemical Thermodynamics</i> , 2009 , 41, 1199-1205	2.9	32
167	Gas-phase molecular structure and energetics of anionic silicates. <i>Geochimica Et Cosmochimica Acta</i> , 2008 , 72, 4421-4439	5.5	32
166	Combined experimental and computational study of the thermochemistry of methylpiperidines. <i>Journal of Organic Chemistry</i> , 2006 , 71, 3677-85	4.2	32
165	Thermochemistry of Small Organosulfur Compounds from ab Initio Calculations. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 11684-11690	2.8	32
164	Facile Heterogeneously Catalyzed Nitrogen Fixation by MXenes. <i>ACS Catalysis</i> , 2020 , 10, 5049-5056	13.1	31
163	Toward an understanding of the aqueous solubility of amino acids in the presence of salts: a molecular dynamics simulation study. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 16450-9	3.4	31
162	Topological analysis of the metal-support interaction: the case of Pd atoms on oxide surfaces. <i>Chemical Physics Letters</i> , 2004 , 388, 132-138	2.5	31
161	Comparative study of geometry and bonding character for methoxy radical adsorption on noble metals. <i>Computational and Theoretical Chemistry</i> , 2000 , 503, 189-200		31
160	Simple, mono and bifunctional periodic mesoporous organosilicas for removal of priority hazardous substances from water: The case of mercury(II). <i>Chemical Engineering Journal</i> , 2017 , 322, 263-274	14.7	30

159	Non-ionic hydrophobic eutectics Versatile solvents for tailored metal separation and valorisation. <i>Green Chemistry</i> , 2020 , 22, 2810-2820	10	30
158	Unraveling the mechanism of the NO reduction by CO on gold based catalysts. <i>Journal of Catalysis</i> , 2012 , 289, 11-20	7.3	29
157	Ionic and radical adsorption on the Au(hkl) surfaces: A DFT study. <i>Surface Science</i> , 2012 , 606, 69-77	1.8	29
156	Cinnamic acid/chloroquinoline conjugates as potent agents against chloroquine-resistant Plasmodium falciparum. <i>ChemMedChem</i> , 2012 , 7, 1537-40	3.7	29
155	Density Functional Theory Study of Co, Rh, and Ir Atoms Deposited on the γ -Al ₂ O ₃ (0001) Surface. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 15671-15678	3.4	29
154	Gas-phase acidity of sulfonamides: implications for reactivity and prodrug design. <i>Tetrahedron</i> , 2005 , 61, 2705-2712	2.4	29
153	2- and 3-acetylpyrroles: a combined calorimetric and computational study. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 3630-8	2.8	27
152	DFT study on the reaction of NO oxidation on a stepped gold surface. <i>Applied Catalysis A: General</i> , 2010 , 379, 111-120	5.1	27
151	Methoxy radical reaction to formaldehyde on clean and hydroxy radical-covered copper (111) surfaces: a density functional theory study. <i>Surface Science</i> , 1999 , 443, 165-176	1.8	27
150	Prediction of Ionic Liquids Properties through Molecular Dynamics Simulations. <i>Current Physical Chemistry</i> , 2014 , 4, 151-172	0.5	27
149	Improving the functionality and performance of AA2024 corrosion sensing coatings with nanocontainers. <i>Chemical Engineering Journal</i> , 2018 , 341, 526-538	14.7	26
148	Water Dissociation on Bimetallic Surfaces: General Trends. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 10120-10128	3.8	26
147	The thermodynamics of the isomerization of cyanophenol and cyanothiophenol compounds. <i>Structural Chemistry</i> , 2007 , 18, 15-23	1.8	26
146	Reactivity of imidazolidin-4-one derivatives of primaquine: implications for prodrug design. <i>Tetrahedron</i> , 2006 , 62, 9883-9891	2.4	26
145	Density functional theory study on the thermodynamic properties of aminophenols. <i>International Journal of Quantum Chemistry</i> , 2005 , 101, 860-868	2.1	26
144	Adsorption of the formyl species on transition metal surfaces. <i>Journal of Electroanalytical Chemistry</i> , 2000 , 483, 180-187	4.1	26
143	Computational and experimental study of the behavior of cyano-based ionic liquids in aqueous solution. <i>Journal of Physical Chemistry B</i> , 2015 , 119, 1567-78	3.4	25
142	Energetic studies of two oxygen heterocyclic compounds Xanthone and tetrahydro- β -pyrone. <i>Journal of Thermal Analysis and Calorimetry</i> , 2009 , 97, 827-833	4.1	25

141	Experimental and computational study on the thermochemistry of the isomers of iodoaniline and diiodoaniline. <i>Chemical Physics Letters</i> , 2006 , 422, 565-570	2.5	25
140	Thermodynamic properties of quinoxaline-1,4-dioxide derivatives: a combined experimental and computational study. <i>Journal of Organic Chemistry</i> , 2004 , 69, 2785-92	4.2	25
139	A Transferable Model for Adsorption in MOFs with Unsaturated Metal Sites. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 441-458	3.8	24
138	How Density Functional Theory Surface Energies May Explain the Morphology of Particles, Nanosheets, and Conversion Films Based on Layered Double Hydroxides. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 2211-2220	3.8	24
137	New Model for Predicting Adsorption of Polar Molecules in Metal-Organic Frameworks with Unsaturated Metal Sites. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 3544-3553	6.4	24
136	Cluster and periodic DFT calculations of adsorption of hydroxyl on the Au(h k l) surfaces. <i>Computational and Theoretical Chemistry</i> , 2010 , 946, 43-50		24
135	DFT study on the reaction of O ₂ dissociation catalyzed by gold surfaces doped with transition metal atoms. <i>Applied Catalysis A: General</i> , 2013 , 458, 90-102	5.1	23
134	Thermochemistry of bithiophenes and thienyl radicals. A calorimetric and computational study. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 11042-50	2.8	23
133	Characterization of systems of thiophene and benzene with ionic liquids. <i>Journal of Molecular Liquids</i> , 2014 , 192, 26-31	6	22
132	Multiscale Model for the Templated Synthesis of Mesoporous Silica: The Essential Role of Silica Oligomers. <i>Chemistry of Materials</i> , 2016 , 28, 2715-2727	9.6	22
131	Unanticipated stereoselectivity in the reaction of primaquine alpha-aminoamides with substituted benzaldehydes: a computational and experimental study. <i>Journal of Organic Chemistry</i> , 2007 , 72, 4189-97	4.2	21
130	DFT study of the Au(321) surface reconstruction by consecutive deposition of oxygen atoms. <i>Surface Science</i> , 2008 , 602, 424-435	1.8	21
129	Thermochemistry of 2-amino-3-quinoxalinecarbonitrile-1,4-dioxide. Evaluation of the mean dissociation enthalpy of the (N-O) bond. <i>Organic and Biomolecular Chemistry</i> , 2004 , 2, 2507-12	3.9	21
128	Gas-phase thermochemistry of chloropyridines. <i>Chemical Physics Letters</i> , 2005 , 406, 154-160	2.5	21
127	Unravelling the Structure of Chemisorbed CO Species in Mesoporous Aminosilicas: A Critical Survey. <i>Environmental Science & Technology</i> , 2019 , 53, 2758-2767	10.3	20
126	"Washing-out" ionic liquids from polyethylene glycol to form aqueous biphasic systems. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 2271-4	3.6	20
125	Experimental and Computational Studies on the Structural and Thermodynamic Properties of Two Sulfur Heterocyclic Keto Compounds. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 5009-5017	2.8	20
124	Combined experimental and computational study of the energetics of methylindoles. <i>Journal of Chemical Thermodynamics</i> , 2009 , 41, 1193-1198	2.9	20

123	Energetic effects of ether and ketone functional groups in 9,10-dihydroanthracene compound. <i>Journal of Chemical Thermodynamics</i> , 2010 , 42, 1248-1254	2.9	20
122	Computational study on the bond dissociation enthalpies in the enolic and ketonic forms of beta-diketones: their influence on metal-ligand bond enthalpies. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 13948-55	2.8	20
121	On the Need for Spin Polarization in Heterogeneously Catalyzed Reactions on Nonmagnetic Metallic Surfaces. <i>Journal of Chemical Theory and Computation</i> , 2012 , 8, 1737-43	6.4	19
120	Predicting hydration Gibbs energies of alkyl-aromatics using molecular simulation: a comparison of current force fields and the development of a new parameter set for accurate solvation data. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 17384-94	3.6	19
119	Mechanism of ionic-liquid-based acidic aqueous biphasic system formation. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 9838-9846	3.6	18
118	A molecular dynamics framework to explore the structure and dynamics of layered double hydroxides. <i>Applied Clay Science</i> , 2018 , 163, 164-177	5.2	18
117	Interaction of chitosan and chitin with Ni, Cu and Zn ions: A computational study. <i>Journal of Chemical Thermodynamics</i> , 2014 , 73, 121-129	2.9	18
116	A computational study on the energetics and reactivity of some xanthene and thioxanthene derivatives. <i>Structural Chemistry</i> , 2013 , 24, 661-670	1.8	18
115	Fischer-Tropsch Synthesis on Multicomponent Catalysts: What Can We Learn from Computer Simulations?. <i>Catalysts</i> , 2015 , 5, 3-17	4	18
114	Molecular energetics of 4-methyldibenzothiophene: An experimental study. <i>Journal of Chemical Thermodynamics</i> , 2010 , 42, 251-255	2.9	18
113	Experimental and computational studies on the molecular energetics of chlorobenzophenones. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 13033-40	3.4	18
112	Molecular energetics of cytosine revisited: a joint computational and experimental study. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 7237-42	2.8	18
111	Combined experimental and computational thermochemistry of isomers of chloronitroanilines. <i>Journal of Chemical Thermodynamics</i> , 2008 , 40, 155-165	2.9	18
110	The effect of atomic point charges on adsorption isotherms of CO ₂ and water in metal organic frameworks. <i>Adsorption</i> , 2020 , 26, 663-685	2.6	18
109	Molecular Simulations of the Synthesis of Periodic Mesoporous Silica Phases at High Surfactant Concentrations. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 4564-4575	3.8	17
108	Insights into CO ₂ and CH ₄ Adsorption by Pristine and Aromatic Amine-Modified Periodic Mesoporous Phenylene-Silicas. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 14236-14245	3.8	17
107	Experimental and computational thermochemical studies of 9-R-xanthene derivatives (ROH, COOH, CONH ₂). <i>Journal of Chemical Thermodynamics</i> , 2012 , 54, 108-117	2.9	17
106	1H-1H double-quantum CRAMPS NMR at very-fast MAS (nuR=35 kHz): a resolution enhancement method to probe 1H-1H proximities in solids. <i>Journal of Magnetic Resonance</i> , 2009 , 196, 88-91	3	17

105	Comparative computational and experimental study on the thermochemistry of the chloropyrimidines. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 792-9	3.4	17
104	Cluster model study of methoxy radical adsorption on the Cu (111) surface. <i>Computational and Theoretical Chemistry</i> , 1999 , 463, 163-168		17
103	Development of Plasmodium falciparum protease inhibitors in the past decade (2002-2012). <i>Current Medicinal Chemistry</i> , 2013 , 20, 3049-68	4.3	17
102	First-Principles Calculations on the Adsorption Behavior of Amino Acids on a Titanium Carbide MXene.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 5913-5921	4.1	17
101	Evidence for the interactions occurring between ionic liquids and tetraethylene glycol in binary mixtures and aqueous biphasic systems. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 4615-29	3.4	16
100	Universal model for accurate calculation of tracer diffusion coefficients in gas, liquid and supercritical systems. <i>Journal of Chromatography A</i> , 2013 , 1290, 1-26	4.5	16
99	Experimental and computational investigation of the thermochemistry of the six isomers of dichloroaniline. <i>Journal of Physical Chemistry A</i> , 2006 , 110, 9301-6	2.8	16
98	Adsorption of Ar atoms on the relaxed defect-free TiO ₂ (110) surface. <i>Physical Review B</i> , 2005 , 71,	3.3	16
97	A theoretical study of dioxymethylene, proposed as intermediate in the oxidation of formaldehyde to formate over copper. <i>Surface Science</i> , 2000 , 446, 283-293	1.8	16
96	Understanding Polymorphic Control of Pharmaceuticals Using Imidazolium-Based Ionic Liquid Mixtures as Crystallization Directing Agents. <i>Crystal Growth and Design</i> , 2017 , 17, 428-432	3.5	15
95	Turning periodic mesoporous organosilicas selective to CO ₂ /CH ₄ separation: deposition of aluminium oxide by atomic layer deposition. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22860-22867	13	15
94	Structural, energetic and reactivity properties of phenoxazine and phenothiazine. <i>Journal of Chemical Thermodynamics</i> , 2014 , 73, 110-120	2.9	15
93	Effect of van der Waals interactions in the DFT description of self-assembled monolayers of thiols on gold. <i>Theoretical Chemistry Accounts</i> , 2015 , 134, 1	1.9	15
92	The origin of the LCST on the liquid-liquid equilibrium of thiophene with ionic liquids. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 5985-92	3.4	15
91	Thermochemical studies on 3-methyl-quinoxaline-2-carboxamide-1,4-dioxide derivatives: enthalpies of formation and of N-O bond dissociation. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 2075-80	3.4	15
90	Energetics of the N-O bonds in 2-hydroxyphenazine-di-N-oxide. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 16188-95	3.4	15
89	Effect of the Exchange-Correlation Potential on the Transferability of Brønsted-Evans-Polanyi Relationships in Heterogeneous Catalysis. <i>Journal of Chemical Theory and Computation</i> , 2016 , 12, 2121-6	6.4	15
88	Mechanisms of phase separation in temperature-responsive acidic aqueous biphasic systems. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 7462-7473	3.6	14

87	Elucidating Structure-Property Relationships in Aluminum Alloy Corrosion Inhibitors by Machine Learning. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 5624-5635	3.8	14
86	Energetics and Reactivity of Morpholine and Thiomorpholine: A Joint Experimental and Computational Study. <i>Journal of Chemical & Engineering Data</i> , 2014 , 59, 312-322	2.8	14
85	Dibenzofuran and methyl-dibenzofuran derivatives: assessment of thermochemical data. <i>Structural Chemistry</i> , 2013 , 24, 1923-1933	1.8	14
84	DFT study on the NO oxidation on a flat gold surface model. <i>Chemical Physics Letters</i> , 2011 , 503, 129-133	2.5	14
83	Theoretical study on the stability of formylphenol and formylaniline compounds and corresponding radicals: O-H or N-H vs C-H bond dissociation. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 1628-34	2.8	14
82	Quinoxaline-1,4-dioxide: Substituent effects on the N-O bond dissociation enthalpy. <i>Chemical Physics Letters</i> , 2006 , 429, 18-22	2.5	14
81	Kinetics and mechanism of hydrolysis of N-acyloxymethyl derivatives of azetidin-2-one. <i>Journal of Organic Chemistry</i> , 2004 , 69, 3359-67	4.2	14
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