

Saadullah G Aziz

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83

papers

1,491

citations

23

h-index

36

g-index

91

ext. papers

1,677

ext. citations

4.7

avg, IF

4.55

L-index

#	Paper	IF	Citations
83	Kinetic-Thermodynamic and Adsorption Isotherms Analyses for the Inhibition of the Acid Corrosion of Steel by Cyclic and Open-Chain Amines. <i>Journal of the Electrochemical Society</i> , 1992 , 139, 2149-2154	3.9	198
82	Static and Dynamic Energetic Disorders in the C60, PC61BM, C70, and PC71BM Fullerenes. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3657-62	6.4	89
81	Magnetite Fe ₃ O ₄ (111) Surfaces: Impact of Defects on Structure, Stability, and Electronic Properties. <i>Chemistry of Materials</i> , 2015 , 27, 5856-5867	9.6	78
80	Impact of Electron Delocalization on the Nature of the Charge-Transfer States in Model Pentacene/C60 Interfaces: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 27648-27656	3.8	67
79	Theoretical Study of the Local and Charge-Transfer Excitations in Model Complexes of Pentacene-C60 Using Tuned Range-Separated Hybrid Functionals. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 2379-88	6.4	65
78	A density functional theory investigation of the electronic structure and spin moments of magnetite. <i>Science and Technology of Advanced Materials</i> , 2014 , 15, 044202	7.1	57
77	Interaction of polar and nonpolar organic pollutants with soil organic matter: sorption experiments and molecular dynamics simulation. <i>Science of the Total Environment</i> , 2015 , 508, 276-87	10.2	51
76	Efficient extraction of sulfate from water using a Zr-metal-organic framework. <i>Dalton Transactions</i> , 2016 , 45, 93-7	4.3	43
75	Structure and Disorder in Squaraine π 60 Organic Solar Cells: A Theoretical Description of Molecular Packing and Electronic Coupling at the Donor π Acceptor Interface. <i>Advanced Functional Materials</i> , 2014 , 24, 3790-3798	15.6	38
74	Influence of Molecular Shape on Solid-State Packing in Disordered PC61BM and PC71BM Fullerenes. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3427-33	6.4	37
73	Synthesis and optophysical properties of dimeric aza-BODIPY dyes with a push-pull benzodipyrrolidone core. <i>Chemical Communications</i> , 2014 , 50, 11540-2	5.8	37
72	Multi-reference approach to the calculation of photoelectron spectra including spin-orbit coupling. <i>Journal of Chemical Physics</i> , 2015 , 143, 074104	3.9	37
71	Unraveling the Electronic Structure of Photocatalytic Manganese Complexes by L-Edge X-ray Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19192-19200	3.8	35
70	Joint Analysis of Radiative and Non-Radiative Electronic Relaxation Upon X-ray Irradiation of Transition Metal Aqueous Solutions. <i>Scientific Reports</i> , 2016 , 6, 24659	4.9	35
69	Nonadiabatic Dynamics of Cycloparaphenylenes with TD-DFTB Surface Hopping. <i>Journal of Chemical Theory and Computation</i> , 2017 , 13, 5846-5860	6.4	33
68	Molecular design of donor-acceptor dyes for efficient dye-sensitized solar cells I: a DFT study. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2241	2	28
67	Towards an ab initio theory for metal L-edge soft X-ray spectroscopy of molecular aggregates. <i>Structural Dynamics</i> , 2016 , 3, 062601	3.2	25

66	Thermodynamic and kinetic factors in chloride ion pitting and nitrogen donor ligand inhibition of aluminium metal corrosion in aggressive acid media. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993 , 89, 795		25
65	Light-induced relaxation dynamics of the ferricyanide ion revisited by ultrafast XUV photoelectron spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 14248-14255	3.6	24
64	Ultrafast Spin Crossover in [Fe (bpy)] : Revealing Two Competing Mechanisms by Extreme Ultraviolet Photoemission Spectroscopy. <i>ChemPhysChem</i> , 2017 , 18, 465-469	3.2	24
63	Effect of Solvent Additives on the Solution Aggregation of Phenyl-C61Butyl Acid Methyl Ester (PCBM). <i>Chemistry of Materials</i> , 2015 , 27, 8261-8272	9.6	23
62	Packing and Disorder in Substituted Fullerenes. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 17242-17250	3.8	23
61	Evidence for the Formation of Pyrimidine Cations from the Sequential Reactions of Hydrogen Cyanide with the Acetylene Radical Cation. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 3392-8	6.4	23
60	Interplay of alternative conjugated pathways and steric interactions on the electronic and optical properties of donor-acceptor conjugated polymers. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8873-8879	7.1	22
59	Experimental and theoretical assignment of the vibrational spectra of triazoles and benzotriazoles. Identification of IR marker bands and electric response properties. <i>Journal of Molecular Modeling</i> , 2014 , 20, 2078	2	20
58	How soil organic matter composition controls hexachlorobenzene-soil-interactions: adsorption isotherms and quantum chemical modeling. <i>Science of the Total Environment</i> , 2014 , 476-477, 98-106	10.2	19
57	Sequential in situ STM imaging of electrodissolving copper in different aqueous acid solutions. <i>Electrochimica Acta</i> , 1998 , 43, 3-12	6.7	18
56	The Thermodynamic and Kinetic Properties of 2-Hydroxypyridine/2-Pyridone Tautomerization: A Theoretical and Computational Revisit. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	18
55	Hydration of the pyrimidine radical cation and stepwise solvation of protonated pyrimidine with water, methanol, and acetonitrile. <i>Journal of Chemical Physics</i> , 2013 , 139, 084304	3.9	17
54	Unconventional hydrogen bonding to organic ions in the gas phase: stepwise association of hydrogen cyanide with the pyridine and pyrimidine radical cations and protonated pyridine. <i>Journal of Chemical Physics</i> , 2014 , 141, 054305	3.9	17
53	Hydrogen bonding of the naphthalene radical cation to water and methanol and attachment of the naphthalene ion to extended hydrogen bonding chains. <i>Chemical Physics Letters</i> , 2014 , 613, 45-53	2.5	14
52	Time dependent Density functional theory characterization of organic dyes for dye-sensitized solar cells. <i>Molecular Simulation</i> , 2017 , 43, 1523-1531	2	13
51	Understanding the effects of electronic polarization and delocalization on charge-transport levels in oligoacene systems. <i>Journal of Chemical Physics</i> , 2017 , 146, 224705	3.9	12
50	Communication: Ion mobility of the radical cation dimers: (Naphthalene) ₂ (⁺) and naphthalene(⁺)benzene: Evidence for stacked sandwich and T-shape structures. <i>Journal of Chemical Physics</i> , 2015 , 142, 191102	3.9	10
49	Proton-bound dimers of nitrogen heterocyclic molecules: substituent effects on the structures and binding energies of homodimers of diazine, triazine, and fluoropyridine. <i>Journal of Chemical Physics</i> , 2014 , 140, 114313	3.9	10

48	Proton-coupled electron transfer in dye-sensitized solar cells: a theoretical perspective. <i>Structural Chemistry</i> , 2018 , 29, 983-997	1.8	8
47	Characterization of the structural, mechanical, and electronic properties of fullerene mixtures: a molecular simulations description. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 3642-3650	7.1	8
46	Theoretical and computational studies of conformation, natural bond orbital and nonlinear optical properties of cis-N-phenylbenzohydroxamic acid. <i>Computational and Theoretical Chemistry</i> , 2014 , 1028, 65-71	2	8
45	Ultrafast kinetics of linkage isomerism in Na[Fe(CN)NO] aqueous solution revealed by time-resolved photoelectron spectroscopy. <i>Structural Dynamics</i> , 2017 , 4, 044031	3.2	8
44	Quantum Topology of the Charge Density of Chemical Bonds. QTAIM Analysis of the C-Br and O-Br Bonds. <i>Procedia Computer Science</i> , 2015 , 51, 1872-1877	1.6	8
43	Sequential in situ STM imaging of electrodisolving copper single-crystal domains in aqueous perchloric acid: Kinetics and mechanism of the interface evolution. <i>Physical Review B</i> , 1997 , 56, 4166-4175 ³	2.3	8
42	Impact of Hydroxylation and Hydration on the Reactivity of Fe ₂ O ₃ (0001) and (102) Surfaces under Environmental and Electrochemical Conditions. <i>Advanced Energy Materials</i> , 2018 , 8, 1800545	21.8	7
41	Nucleophilic Aromatic Addition in Ionizing Environments: Observation and Analysis of New C-N Valence Bonds in Complexes between Naphthalene Radical Cation and Pyridine. <i>Journal of the American Chemical Society</i> , 2017 , 139, 11923-11932	16.4	7
40	Effects of protonation and deprotonation on the reactivity of quinolone: A theoretical study. <i>Science Bulletin</i> , 2012 , 57, 1665-1671		7
39	Substituent effects on noncovalent bonds: complexes of ionized benzene derivatives with hydrogen cyanide. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 10588-97	2.8	7
38	The production and spectroscopic identification of bromothioborine, BrB ₂ S from the thermolysis of 2,4,6-Trisbromo-cyclo-1,3,5-trithia-2,4,6-triborane, (BrBS) ₃ . <i>Inorganica Chimica Acta</i> , 1988 , 146, 167-171	2.7	7
37	Ultrafast Spin-State Dynamics in Transition-Metal Complexes Triggered by Soft-X-Ray Light. <i>Physical Review Letters</i> , 2017 , 118, 023001	7.4	6
36	Nuclear Dynamical Correlation Effects in X-ray Spectroscopy from a Theoretical Time-Domain Perspective. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 992-996	6.4	6
35	Effect of substitution on the optoelectronic properties of dyes for DSSC. A DFT approach. <i>Journal of Theoretical and Computational Chemistry</i> , 2017 , 16, 1750018	1.8	6
34	Towards understanding the decomposition/isomerism channels of stratospheric bromine species: ab initio and quantum topology study. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 6783-800	6.3	6
33	Protonation and deprotonation enthalpies of alloxan and implications for the structure and energy of its complexes with water: a computational study. <i>Journal of Biomolecular Structure and Dynamics</i> , 2015 , 33, 897-910	3.6	6
32	UV excitations of halons. <i>Journal of Chemical Physics</i> , 2016 , 145, 184306	3.9	6
31	Electronic structure and acidBase properties of Kojic acid and its dimers. A DFT and quantum topology study. <i>Molecular Physics</i> , 2017 , 115, 2565-2576	1.7	5

30	Theoretical description of the geometric and electronic structures of organic-organic interfaces in organic solar cells: a brief review. <i>Science China Chemistry</i> , 2014 , 57, 1330-1339	7.9	5
29	Theoretical investigation of the photochemical reaction mechanism of cyclopropenone decarbonylation. <i>Molecular Physics</i> , 2011 , 109, 1785-1795	1.7	5
28	On the Electronic Structure of Azolides. Part II: Electronic Absorption Spectra of N-Acylimidazoles. A MO Approach to Cross- and Linear Conjugation. <i>Applied Spectroscopy</i> , 1986 , 40, 556-562	3.1	5
27	Observation of covalent and electrostatic bonds in nitrogen-containing polycyclic ions formed by gas phase reactions of the benzene radical cation with pyrimidine. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 6422-6432	3.6	4
26	Density matrix-based time-dependent configuration interaction approach to ultrafast spin-flip dynamics. <i>Molecular Physics</i> , 2017 , 115, 1898-1907	1.7	4
25	Solvation and speciation of cobalt(II). A theoretical X-ray absorption and RIXS study. <i>Chemical Physics</i> , 2020 , 532, 110681	2.3	4
24	Unconventional CH(π)⋯N hydrogen bonding interactions in the stepwise solvation of the naphthalene radical cation by hydrogen cyanide and acetonitrile molecules. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 2580-90	3.6	4
23	Electronic structure and decomposition reaction mechanism of cyclopropenone, phenylcyclopropenone and their sulfur analogues: a theoretical study. <i>Journal of Molecular Modeling</i> , 2013 , 19, 1339-53	2	4
22	Gas phase hydration of halogenated benzene cations. Is it hydrogen or halogen bonding?. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 18603-18611	3.6	4
21	A time-correlation function approach to nuclear dynamical effects in X-ray spectroscopy. <i>Journal of Chemical Physics</i> , 2017 , 146, 224203	3.9	4
20	Gas-Phase Thermal Tautomerization of Imidazole-Acetic Acid: Theoretical and Computational Investigations. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 26347-62	6.3	4
19	Theoretical characterization of gas-phase thermolysis products of ethane-1,2-diol, 2-chloroethanol and 2-fluoroethanol. <i>Molecular Physics</i> , 2013 , 111, 643-659	1.7	4
18	Understanding the decomposition reaction mechanism of chrysanthemic acid: a computational study. <i>Chemistry Central Journal</i> , 2011 , 5, 66		4
17	Photochemical dissociation of HOBr. A nonadiabatic dynamics study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016 , 324, 8-13	4.7	3
16	Theoretical Investigation of the Dispersion Interaction in Argon Dimer and Trimer. <i>Procedia Computer Science</i> , 2013 , 18, 826-834	1.6	3
15	Eclipsed acetaldehyde as a precursor for producing vinyl alcohol. <i>International Journal of Molecular Sciences</i> , 2012 , 13, 15360-72	6.3	3
14	Theoretical insights into dehydrogenative chemisorption of alkylaromatics on Pt(1 0 0) and Ni(1 0 0). <i>Journal of Catalysis</i> , 2018 , 363, 197-203	7.3	3
13	Photochemistry of methyl hypobromite (CH ₃ OBr): excited states and photoabsorption spectrum. <i>RSC Advances</i> , 2015 , 5, 97003-97015	3.7	2

12	Electronic structure of alloxan and its dimers: QM/QD simulations and quantum chemical topology analysis. <i>Journal of Biomolecular Structure and Dynamics</i> , 2015 , 33, 2121-32	3.6	2
11	Solvent-assisted excited state proton transfer and photoacidity of 2-hydroxypyridine. A nonadiabatic dynamics study. <i>Molecular Simulation</i> , 2019 , 45, 165-177	2	2
10	Synthesis, characterization, computational study, DNA binding and molecular docking studies of chromium (III) drug-based complexes. <i>Journal of Molecular Structure</i> , 2020 , 1215, 128283	3.4	2
9	Toward better understanding of the support effect: Test cases for CO dissociation on Fe _n /TiO ₂ (1 1 0), n = 4, 5. <i>Chemical Physics Letters</i> , 2017 , 684, 30-35	2.5	1
8	Substituent effects on the absorption and vibrational spectra of some 2-hydroxy Schiff bases: DFT/TDDFT, natural bond orbital and experimental study. <i>Journal of Structural Chemistry</i> , 2015 , 56, 414-427	3.9	1
7	The electronic structure of alloxan monohydrate. Spectroscopic and density functional synergic approach. <i>Journal of Molecular Structure</i> , 2017 , 1130, 487-496	3.4	1
6	Does prop-2-ynylideneamine, HC≡CCH=NH, exist in space? A theoretical and computational investigation. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 11064-81	6.3	1
5	Xe-bearing hydrocarbon ions: Observation of Xe.acetylene ⁺ and Xe.benzene ⁺ radical cations and calculations of their ground state structures. <i>Chemical Physics Letters</i> , 2016 , 649, 8-14	2.5	0
4	Zn-Schiff Base Complex as an "On-Off-On" Molecular Switch and a Fluorescence Probe for Cu and Ag Ions. <i>Journal of Fluorescence</i> , 2022 , 32, 691	2.4	0
3	Formation of the oxonium phenol ion in the stepwise hydration of the phenyl cation in the gas phase. <i>Journal of Molecular Liquids</i> , 2021 , 322, 114541	6	0
2	Origin of the Extra Stability of Alloxan. A Computation Study. <i>Procedia Computer Science</i> , 2014 , 29, 1366-1375	1.6	0
1	Exploring the Conical Intersection Seam in Cytosine: A DFT and CASSCF Study. <i>Procedia Computer Science</i> , 2014 , 29, 1384-1391	1.6	0