

# Saadullah G Aziz

## List of Publications by Year in Descending Order

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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	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> , <b>2022</b> , 32, 691	2.4	0
82	Formation of the oxonium phenol ion in the stepwise hydration of the phenyl cation in the gas phase. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 322, 114541	6	0
81	Solvation and speciation of cobalt(II). A theoretical X-ray absorption and RIXS study. <i>Chemical Physics</i> , <b>2020</b> , 532, 110681	2.3	4
80	Synthesis, characterization, computational study, DNA binding and molecular docking studies of chromium (III) drug-based complexes. <i>Journal of Molecular Structure</i> , <b>2020</b> , 1215, 128283	3.4	2
79	Solvent-assisted excited state proton transfer and photoacidity of 2-hydroxypyridine. A nonadiabatic dynamics study. <i>Molecular Simulation</i> , <b>2019</b> , 45, 165-177	2	2
78	Proton-coupled electron transfer in dye-sensitized solar cells: a theoretical perspective. <i>Structural Chemistry</i> , <b>2018</b> , 29, 983-997	1.8	8
77	Characterization of the structural, mechanical, and electronic properties of fullerene mixtures: a molecular simulations description. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 3642-3650	7.1	8
76	Impact of Hydroxylation and Hydration on the Reactivity of Fe <sub>2</sub> O <sub>3</sub> (0001) and (102) Surfaces under Environmental and Electrochemical Conditions. <i>Advanced Energy Materials</i> , <b>2018</b> , 8, 1800545	21.8	7
75	Theoretical insights into dehydrogenative chemisorption of alkylaromatics on Pt(1 0 0) and Ni(1 0 0). <i>Journal of Catalysis</i> , <b>2018</b> , 363, 197-203	7.3	3
74	Ultrafast Spin-State Dynamics in Transition-Metal Complexes Triggered by Soft-X-Ray Light. <i>Physical Review Letters</i> , <b>2017</b> , 118, 023001	7.4	6
73	Nuclear Dynamical Correlation Effects in X-ray Spectroscopy from a Theoretical Time-Domain Perspective. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 992-996	6.4	6
72	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> , <b>2017</b> , 19, 6422-6432	3.6	4
71	Understanding the effects of electronic polarization and delocalization on charge-transport levels in oligoacene systems. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 224705	3.9	12
70	Density matrix-based time-dependent configuration interaction approach to ultrafast spin-flip dynamics. <i>Molecular Physics</i> , <b>2017</b> , 115, 1898-1907	1.7	4
69	Toward better understanding of the support effect: Test cases for CO dissociation on Fe <sub>n</sub> /TiO <sub>2</sub> (1 1 0), n = 4, 5. <i>Chemical Physics Letters</i> , <b>2017</b> , 684, 30-35	2.5	1
68	Time dependent Density functional theory characterization of organic dyes for dye-sensitized solar cells. <i>Molecular Simulation</i> , <b>2017</b> , 43, 1523-1531	2	13
67	Light-induced relaxation dynamics of the ferricyanide ion revisited by ultrafast XUV photoelectron spectroscopy. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 14248-14255	3.6	24

66	Electronic structure and acid-base properties of Kojic acid and its dimers. A DFT and quantum topology study. <i>Molecular Physics</i> , <b>2017</b> , 115, 2565-2576	1.7	5
65	Effect of substitution on the optoelectronic properties of dyes for DSSC. A DFT approach. <i>Journal of Theoretical and Computational Chemistry</i> , <b>2017</b> , 16, 1750018	1.8	6
64	Ultrafast Spin Crossover in [Fe (bpy) ] : Revealing Two Competing Mechanisms by Extreme Ultraviolet Photoemission Spectroscopy. <i>ChemPhysChem</i> , <b>2017</b> , 18, 465-469	3.2	24
63	Gas phase hydration of halogenated benzene cations. Is it hydrogen or halogen bonding?. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 18603-18611	3.6	4
62	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> , <b>2017</b> , 139, 11923-11932	16.4	7
61	A time-correlation function approach to nuclear dynamical effects in X-ray spectroscopy. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 224203	3.9	4
60	Nonadiabatic Dynamics of Cycloparaphenylenes with TD-DFTB Surface Hopping. <i>Journal of Chemical Theory and Computation</i> , <b>2017</b> , 13, 5846-5860	6.4	33
59	Ultrafast kinetics of linkage isomerism in Na[Fe(CN)NO] aqueous solution revealed by time-resolved photoelectron spectroscopy. <i>Structural Dynamics</i> , <b>2017</b> , 4, 044031	3.2	8
58	The electronic structure of alloxan monohydrate. Spectroscopic and density functional synergic approach. <i>Journal of Molecular Structure</i> , <b>2017</b> , 1130, 487-496	3.4	1
57	Packing and Disorder in Substituted Fullerenes. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 17242-17250	3.8	23
56	Joint Analysis of Radiative and Non-Radiative Electronic Relaxation Upon X-ray Irradiation of Transition Metal Aqueous Solutions. <i>Scientific Reports</i> , <b>2016</b> , 6, 24659	4.9	35
55	Towards an ab initio theory for metal L-edge soft X-ray spectroscopy of molecular aggregates. <i>Structural Dynamics</i> , <b>2016</b> , 3, 062601	3.2	25
54	Efficient extraction of sulfate from water using a Zr-metal-organic framework. <i>Dalton Transactions</i> , <b>2016</b> , 45, 93-7	4.3	43
53	Photochemical dissociation of HOBr. A nonadiabatic dynamics study. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2016</b> , 324, 8-13	4.7	3
52	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> , <b>2016</b> , 649, 8-14	2.5	0
51	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> , <b>2016</b> , 18, 2580-90	3.6	4
50	The Thermodynamic and Kinetic Properties of 2-Hydroxypyridine/2-Pyridone Tautomerization: A Theoretical and Computational Revisit. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	18
49	UV excitations of halons. <i>Journal of Chemical Physics</i> , <b>2016</b> , 145, 184306	3.9	6

48	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> , <b>2015</b> , 56, 414-427	9.9	1
47	Magnetite Fe <sub>3</sub> O <sub>4</sub> (111) Surfaces: Impact of Defects on Structure, Stability, and Electronic Properties. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 5856-5867	9.6	78
46	Unraveling the Electronic Structure of Photocatalytic Manganese Complexes by L-Edge X-ray Spectroscopy. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 19192-19200	3.8	35
45	Towards understanding the decomposition/isomerism channels of stratospheric bromine species: ab initio and quantum topology study. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 6783-800	6.3	6
44	Static and Dynamic Energetic Disorders in the C <sub>60</sub> , PC <sub>61</sub> BM, C <sub>70</sub> , and PC <sub>71</sub> BM Fullerenes. <i>Journal of Physical Chemistry Letters</i> , <b>2015</b> , 6, 3657-62	6.4	89
43	Communication: Ion mobility of the radical cation dimers: (Naphthalene) <sup>2+</sup> and naphthalene <sup>+</sup> -benzene: Evidence for stacked sandwich and T-shape structures. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 191102	3.9	10
42	Effect of Solvent Additives on the Solution Aggregation of Phenyl-C <sub>61</sub> Butyl Acid Methyl Ester (PCBM). <i>Chemistry of Materials</i> , <b>2015</b> , 27, 8261-8272	9.6	23
41	Photochemistry of methyl hypobromite (CH <sub>3</sub> OBr): excited states and photoabsorption spectrum. <i>RSC Advances</i> , <b>2015</b> , 5, 97003-97015	3.7	2
40	Electronic structure of alloxan and its dimers: QM/QD simulations and quantum chemical topology analysis. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2015</b> , 33, 2121-32	3.6	2
39	Interaction of polar and nonpolar organic pollutants with soil organic matter: sorption experiments and molecular dynamics simulation. <i>Science of the Total Environment</i> , <b>2015</b> , 508, 276-87	10.2	51
38	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> , <b>2015</b> , 33, 897-910	3.6	6
37	Multi-reference approach to the calculation of photoelectron spectra including spin-orbit coupling. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 074104	3.9	37
36	Quantum Topology of the Charge Density of Chemical Bonds. QTAIM Analysis of the C-Br and O-Br Bonds. <i>Procedia Computer Science</i> , <b>2015</b> , 51, 1872-1877	1.6	8
35	Gas-Phase Thermal Tautomerization of Imidazole-Acetic Acid: Theoretical and Computational Investigations. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 26347-62	6.3	4
34	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> , <b>2014</b> , 20, 2078	2	20
33	Structure and Disorder in Squaraine $\pi$ C <sub>60</sub> Organic Solar Cells: A Theoretical Description of Molecular Packing and Electronic Coupling at the Donor-Acceptor Interface. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 3790-3798	15.6	38
32	Theoretical and computational studies of conformation, natural bond orbital and nonlinear optical properties of cis-N-phenylbenzohydroxamic acid. <i>Computational and Theoretical Chemistry</i> , <b>2014</b> , 1028, 65-71	2	8
31	Impact of Electron Delocalization on the Nature of the Charge-Transfer States in Model Pentacene/C <sub>60</sub> Interfaces: A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 27648-27656	3.8	67

30	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> , <b>2014</b> , 2, 8873-8879	7.1	22
29	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> , <b>2014</b> , 5, 3392-8	6.4	23
28	Influence of Molecular Shape on Solid-State Packing in Disordered PC61BM and PC71BM Fullerenes. <i>Journal of Physical Chemistry Letters</i> , <b>2014</b> , 5, 3427-33	6.4	37
27	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> , <b>2014</b> , 613, 45-53	2.5	14
26	Synthesis and optophysical properties of dimeric aza-BODIPY dyes with a push-pull benzodipyrrolidone core. <i>Chemical Communications</i> , <b>2014</b> , 50, 11540-2	5.8	37
25	A density functional theory investigation of the electronic structure and spin moments of magnetite. <i>Science and Technology of Advanced Materials</i> , <b>2014</b> , 15, 044202	7.1	57
24	Molecular design of donor-acceptor dyes for efficient dye-sensitized solar cells I: a DFT study. <i>Journal of Molecular Modeling</i> , <b>2014</b> , 20, 2241	2	28
23	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> , <b>2014</b> , 10, 2379-88	6.4	65
22	Origin of the Extra Stability of Alloxan. A Computation Study. <i>Procedia Computer Science</i> , <b>2014</b> , 29, 1366-1375		
21	Exploring the Conical Intersection Seam in Cytosine: A DFT and CASSCF Study. <i>Procedia Computer Science</i> , <b>2014</b> , 29, 1384-1391	1.6	
20	Theoretical description of the geometric and electronic structures of organic-organic interfaces in organic solar cells: a brief review. <i>Science China Chemistry</i> , <b>2014</b> , 57, 1330-1339	7.9	5
19	Does prop-2-ynylideneamine, HC≡CCH=NH, exist in space? A theoretical and computational investigation. <i>International Journal of Molecular Sciences</i> , <b>2014</b> , 15, 11064-81	6.3	1
18	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> , <b>2014</b> , 140, 114313	3.9	10
17	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> , <b>2014</b> , 141, 054305	3.9	17
16	How soil organic matter composition controls hexachlorobenzene-soil-interactions: adsorption isotherms and quantum chemical modeling. <i>Science of the Total Environment</i> , <b>2014</b> , 476-477, 98-106	10.2	19
15	Hydration of the pyrimidine radical cation and stepwise solvation of protonated pyrimidine with water, methanol, and acetonitrile. <i>Journal of Chemical Physics</i> , <b>2013</b> , 139, 084304	3.9	17
14	Electronic structure and decomposition reaction mechanism of cyclopropenone, phenylcyclopropenone and their sulfur analogues: a theoretical study. <i>Journal of Molecular Modeling</i> , <b>2013</b> , 19, 1339-53	2	4
13	Theoretical Investigation of the Dispersion Interaction in Argon Dimer and Trimer. <i>Procedia Computer Science</i> , <b>2013</b> , 18, 826-834	1.6	3

12	Substituent effects on noncovalent bonds: complexes of ionized benzene derivatives with hydrogen cyanide. <i>Journal of Physical Chemistry A</i> , <b>2013</b> , 117, 10588-97	2.8	7
11	Theoretical characterization of gas-phase thermolysis products of ethane-1,2-diol, 2-chloroethanol and 2-fluoroethanol. <i>Molecular Physics</i> , <b>2013</b> , 111, 643-659	1.7	4
10	Effects of protonation and deprotonation on the reactivity of quinolone: A theoretical study. <i>Science Bulletin</i> , <b>2012</b> , 57, 1665-1671		7
9	Eclipsed acetaldehyde as a precursor for producing vinyl alcohol. <i>International Journal of Molecular Sciences</i> , <b>2012</b> , 13, 15360-72	6.3	3
8	Understanding the decomposition reaction mechanism of chrysanthemic acid: a computational study. <i>Chemistry Central Journal</i> , <b>2011</b> , 5, 66		4
7	Theoretical investigation of the photochemical reaction mechanism of cyclopropanone decarbonylation. <i>Molecular Physics</i> , <b>2011</b> , 109, 1785-1795	1.7	5
6	Sequential in situ STM imaging of electrodisolving copper in different aqueous acid solutions. <i>Electrochimica Acta</i> , <b>1998</b> , 43, 3-12	6.7	18
5	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> , <b>1997</b> , 56, 4166-4175	2.3	8
4	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> , <b>1993</b> , 89, 795		25
3	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> , <b>1992</b> , 139, 2149-2154	3.9	198
2	The production and spectroscopic identification of bromothioborane, BrB <sub>2</sub> S from the thermolysis of 2,4,6-Trisbromo-cyclo-1,3,5-trithia-2,4,6-triborane, (BrBS) <sub>3</sub> . <i>Inorganica Chimica Acta</i> , <b>1988</b> , 146, 167-171	2.7	7
1	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> , <b>1986</b> , 40, 556-562	3.1	5