

Osama K Abou-Zied

List of Publications by Year in descending order

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65
papers

2,194
citations

218677

26
h-index

223800

46
g-index

65
all docs

65
docs citations

65
times ranked

2572
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of Subdomain IIA Binding Site of Human Serum Albumin in its Native, Unfolded, and Refolded States Using Small Molecular Probes. <i>Journal of the American Chemical Society</i> , 2008, 130, 10793-10801.	13.7	475
2	Solvent-Dependent Photoinduced Tautomerization of 2-(2-Hydroxyphenyl)benzoxazole. <i>Journal of Physical Chemistry A</i> , 2002, 106, 3665-3672.	2.5	178
3	Femtosecond fluorescence upconversion studies of excited-state proton-transfer dynamics in 2-(2-hydroxyphenyl)benzoxazole (HBO) in liquid solution and DNA. <i>Chemical Physics Letters</i> , 2003, 367, 599-608.	2.6	118
4	Tautomerization Dynamics of a Model Base Pair in DNA. <i>Journal of the American Chemical Society</i> , 2001, 123, 4613-4614.	13.7	77
5	A Phototautomerizable Model DNA Base Pair. <i>Journal of the American Chemical Society</i> , 2000, 122, 9917-9920.	13.7	76
6	Cadmium Sulfide Nanoparticles Decorated with Au Quantum Dots as Ultrasensitive Photoelectrochemical Sensor for Selective Detection of Copper(II) Ions. <i>Journal of Physical Chemistry C</i> , 2016, 120, 22202-22214.	3.1	71
7	Investigating 2,2-Bipyridine-3,3-diol as a Microenvironment-Sensitive Probe: Its Binding to Cyclodextrins and Human Serum Albumin. <i>Journal of Physical Chemistry B</i> , 2007, 111, 9879-9885.	2.6	57
8	Binding of Hydroxyquinoline Probes to Human Serum Albumin: Combining Molecular Modeling and Förster's Resonance Energy Transfer Spectroscopy to Understand Flexible Ligand Binding. <i>Journal of Physical Chemistry B</i> , 2013, 117, 1062-1074.	2.6	57
9	The role of water in solvating the hydrogen-bonding center of 2-(2-hydroxyphenyl)benzoxazole. <i>Chemical Physics</i> , 2007, 337, 1-10.	1.9	55
10	Exploring the Drug-Binding Site Sudlow I of Human Serum Albumin: The Role of Water and Trp214 in Molecular Recognition and Ligand Binding. <i>ChemPhysChem</i> , 2011, 12, 270-274.	2.1	54
11	Gold-silver@TiO ₂ nanocomposite-modified plasmonic photoanodes for higher efficiency dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 1395-1407.	2.8	52
12	Revealing the ionization ability of binding site I of human serum albumin using 2-(2-hydroxyphenyl)benzoxazole as a pH sensitive probe. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2832.	2.8	48
13	Femtosecond Dynamics of Transition States and the Concept of Concertedness: Nitrogen Extrusion of Azomethane Reactions. <i>Journal of the American Chemical Society</i> , 1998, 120, 3245-3246.	13.7	47
14	Steady-State and Time-Resolved Spectroscopy of 2,2-Bipyridine-3,3-diol in Solvents and Cyclodextrins: Polarity and Nanoconfinement Effects on Tautomerization. <i>Journal of Physical Chemistry B</i> , 2010, 114, 1069-1076.	2.6	47
15	Examining [2,2-bipyridyl]-3,3-diol as a possible DNA model base pair. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006, 182, 192-201.	3.9	46
16	Insights into the molecular interaction between sucrose and L-chymotrypsin. <i>International Journal of Biological Macromolecules</i> , 2018, 114, 950-960.	7.5	46
17	New insights into the mode of action of the lantibiotic salivaricin B. <i>Scientific Reports</i> , 2016, 6, 31749.	3.3	44
18	Understanding the Physical and Chemical Nature of the Warfarin Drug Binding Site in Human Serum Albumin: Experimental and Theoretical Studies. <i>Current Pharmaceutical Design</i> , 2015, 21, 1800-1816.	1.9	40

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19	Insights into the molecular interaction between two polyoxygenated cinnamoylcoumarin derivatives and human serum albumin. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10099-10115.	2.8	36
20	Caging Effects on the Ground and Excited States of 2,2'-Bipyridine-3,3'-diol Embedded in Cyclodextrins. <i>Journal of Physical Chemistry A</i> , 2006, 110, 7835-7840.	2.5	35
21	Tautomerism in 7-Hydroxyquinoline: A Combined Experimental and Theoretical Study in Water. <i>Journal of Physical Chemistry A</i> , 2011, 115, 4195-4201.	2.5	35
22	Cytotoxicity and antioxidant activity of Kamolonol acetate from <i>Ferula pseudalliacea</i> , and studying its interactions with calf thymus DNA (ct-DNA) and human serum albumin (HSA) by spectroscopic and molecular docking techniques. <i>Process Biochemistry</i> , 2019, 79, 203-213.	3.7	35
23	Spectroscopy of hydroxyphenyl benzazoles in solution and human serum albumin: detecting flexibility, specificity and high affinity of the warfarin drug binding site. <i>RSC Advances</i> , 2013, 3, 8747.	3.6	34
24	<p>β-synuclein interaction with zero-valent iron nanoparticles accelerates structural rearrangement into amyloid-susceptible structure with increased cytotoxic tendency</p><p>International Journal of Nanomedicine, 2019, Volume 14, 4637-4648.	6.7	33
25	Fluorescence Probing of the Temperature-Induced Phase Transition in a Glycolipid Self-Assembly: Hexagonal " Micellar and Cubic " Lamellar. <i>Langmuir</i> , 2012, 28, 4989-4995.	3.5	32
26	Picosecond real time study of the bimolecular reaction $O(3P)+C_2H_4$ and the unimolecular photodissociation of CH_3CHO and H_2CO . <i>Journal of Chemical Physics</i> , 1998, 109, 1293-1301.	3.0	30
27	Site-specific recognition of fluorescein by human serum albumin: A steady-state and time-resolved spectroscopic study. <i>Dyes and Pigments</i> , 2014, 110, 89-96.	3.7	26
28	Caging and solvent effects on the tautomeric equilibrium of 3-pyridone/3-hydroxypyridine in the ground state: a study in cyclodextrins and binary solvents. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 5377.	2.8	22
29	New Insight into the Origin of the Red/Near-Infrared Intense Fluorescence of a Crystalline 2-Hydroxychalcone Derivative: A Comprehensive Picture from the Excited-State Femtosecond Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5603-5608.	4.6	22
30	Characterization of the Head Group and the Hydrophobic Regions of a Glycolipid Lyotropic Hexagonal Phase Using Fluorescent Probes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 19805-19810.	3.1	21
31	A spectroscopic study of the inclusion of azulene by β^2 - and β^3 -cyclodextrins. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005, 62, 245-251.	3.9	19
32	Evidence of Basic Medium in the Polar Nanochannels of the Inverse Bicontinuous Cubic Phase of a Guerbet Glycolipid: A Steady-State and Time-Resolved Fluorescence Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 26636-26643.	3.1	17
33	Selective binding of pyrene in subdomain IB of human serum albumin: Combining energy transfer spectroscopy and molecular modelling to understand protein binding flexibility. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 194, 36-44.	3.9	17
34	Solvent Effect on Anthranilic Acid Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2014, 118, 103-109.	2.5	16
35	Picosecond dynamics of the S2 excited state of azulene and its van der Waals complexes with Ar and Xe. <i>Chemical Physics Letters</i> , 1997, 266, 75-85.	2.6	13
36	p-Methoxy Azobenzene Terpolymer as a Promising Energy-Storage Liquid Crystal System. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22472-22482.	3.1	13

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37	Alkyl mono- and di-glucoside sugar vesicles as potential drug delivery vehicles: detecting drug release using fluorescence. <i>RSC Advances</i> , 2015, 5, 55536-55543.	3.6	12
38	Ground and excited state dipole moments of pyranthione and xanthione by the electro-optic method. <i>Chemical Physics Letters</i> , 1993, 201, 433-436.	2.6	11
39	Evidence of Increased Hydrophobicity and Dynamics inside the Tail Region of Glycolipid Self-Assemblies Using 2-(1-pyrenyl)iodoacetamide-Alkyl-Pyrene Derivatives to Probe Different Locations. <i>Langmuir</i> , 2019, 35, 9584-9592.	3.5	11
40	<p>Vitamin K1 As A Potential Molecule For Reducing Single-Walled Carbon Nanotubes-Stimulated Î±-Synuclein Structural Changes And Cytotoxicity</p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 8433-8444.	6.7	11
41	Photophysical properties of hydroxyphenyl benzazoles and their applications as fluorescent probes to study local environment in DNA, protein and lipid. <i>Luminescence</i> , 2016, 31, 614-625.	2.9	10
42	Detecting local heterogeneity and ionization ability in the head group region of different lipidic phases using modified fluorescent probes. <i>Scientific Reports</i> , 2015, 5, 8699.	3.3	9
43	Elucidating the mechanism of peptide interaction with membranes using the intrinsic fluorescence of tryptophan: perpendicular penetration of cecropin B-like peptides into <i>Pseudomonas aeruginosa</i> . <i>RSC Advances</i> , 2015, 5, 14214-14220.	3.6	8
44	Lifetime and dynamics of charge carriers in carbon-incorporated ZnO nanostructures for water treatment under visible light: Femtosecond transient absorption and photoluminescence study. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104097.	6.7	8
45	Two Is Better than One? Investigating the Effect of Incorporating Re(CO) ₃ Cl Side Chains into Pt(II) Dienes and Polyynes. <i>Inorganic Chemistry</i> , 2021, 60, 745-759.	4.0	8
46	Ground state spectroscopy of hydroxyquinolines: evidence for the formation of protonated species in water-rich dioxane-water mixtures. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 61-70.	2.8	7
47	<p>The interaction of silica nanoparticles with catalase and human mesenchymal stem cells: biophysical, theoretical and cellular studies</p>. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 5355-5368.	6.7	6
48	Origins of the differences in solvation by alkanes and perfluoroalkanes. <i>Chemical Physics Letters</i> , 1994, 230, 547-554.	2.6	5
49	Van der Waals Complexes of 2-Chloro-, 2-Methyl-, and 1,3-Dimethylazulene with Rare Gases: A Microscopic Solvent Shifts, Structures, and Binding Energies. <i>Journal of Physical Chemistry A</i> , 1997, 101, 7989-7997.	2.5	5
50	Effect of NH ₂ rotation on the fluorescence of 2-aminopurine in solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013, 261, 1-6.	3.9	5
51	Electronic and steric effects of platinum(<i>ii</i>) di-yne and poly-yne substituents on the photo-switching behaviour of stilbene: experimental and theoretical insights. <i>Dalton Transactions</i> , 2021, 50, 2555-2569.	3.3	5
52	Steady-state and time-resolved fluorescence investigation of 2-pyridone and 3-pyridone in solution and their specific binding to human serum albumin. <i>Proceedings of SPIE</i> , 2008, , .	0.8	4
53	Spectroscopic characterization of the warfarin drug-binding site of folded and unfolded human serum albumin anchored on gold nanoparticles: effect of bioconjugation on the loading capacity. <i>RSC Advances</i> , 2018, 8, 7523-7532.	3.6	4
54	Controlling the emissive pathways of carbon nanoparticles by selective surface functionalization. <i>Applied Surface Science</i> , 2021, 566, 150618.	6.1	4

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55	Comparative study of the inverse versus normal bicontinuous cubic phases of the β -D-glucopyranoside water-driven self-assemblies using fluorescent probes. RSC Advances, 2016, 6, 227-235.	3.6	3
56	Optical imaging and spectroscopy of SnO ₂ -rhodamine 6G composite's desiccation patterns. Journal of Applied Physics, 2019, 125, .	2.5	3
57	Emission characteristics of carbon films in comparison with solvatochromic effects of carbon nanoparticles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 266, 120442.	3.9	3
58	Steady-state spectroscopy of new biological probes. , 2007, , .		2
59	Stereoselective synthesis and molecular modeling of chiral cyclopentanes. Carbohydrate Research, 2015, 415, 12-16.	2.3	2
60	Photoexcited Charge Trapping Induced Quenching of Radiative Recombination Pathways in CuInS ₂ /ZnS-Dye Nanoassemblies. Journal of Luminescence, 2021, 239, 118402.	3.1	2
61	Specific interaction of 7-hydroxyquinoline with Trp-214 in the drug-binding site IIA of human serum albumin. , 2010, , .		1
62	Water participation in molecular recognition and protein-ligand association: Probing the drug binding site "Sudlow I" in human serum albumin. Proceedings of SPIE, 2012, , .	0.8	1
63	Spectroscopic characterization of the binding mechanism of fluorescein and carboxyfluorescein in human serum albumin. , 2015, , .		0
64	Fluorescence characterization of water-driven self-assembled lipids and their temperature-induced phase transitions. , 2015, , .		0
65	Amphitropic liquid crystal phases from polyhydroxy sugar surfactants: Fundamental studies. , 2015, , .		0