Ayman Ayoub Abdel-Shafi

List of Publications by Year
in descending order

40 papers	1,262 citations	331670 21 h-index	361022 35 g-index
40 all docs	40 docs citations	40 times ranked	1465 citing authors

#	Article	IF	Citations
1	Photosensitized Generation of Singlet Oxygen from Vinyl Linked Benzo-Crown-Etherâˆ'Bipyridyl Ruthenium(II) Complexes. Journal of Physical Chemistry A, 2000, 104, 192-202.	2.5	117
2	Charge Transfer Effects on the Efficiency of Singlet Oxygen Production Following Oxygen Quenching of Excited Singlet and Triplet States of Aromatic Hydrocarbons in Acetonitrile. Journal of Physical Chemistry A, 2000, 104, 5747-5757.	2.5	92
3	Mechanism of Quenching of Triplet States by Oxygen:Â Biphenyl Derivatives in Acetonitrile. Journal of Physical Chemistry A, 1997, 101, 5509-5516.	2.5	90
4	Mechanism of Quenching of Triplet States by Molecular Oxygen:Â Biphenyl Derivatives in Different Solvents. Journal of Physical Chemistry A, 1999, 103, 5425-5435.	2.5	79
5	Photosensitized generation of singlet oxygen from ruthenium(ii) and osmium(ii) bipyridyl complexes. Dalton Transactions, 2004, , 30.	3.3	77
6	Photosensitized generation of singlet oxygen from rhenium(i) and iridium(iii) complexes. Dalton Transactions, 2007, , 2510.	3.3	73
7	Mechanism of the excited singlet and triplet states quenching by molecular oxygen in acetonitrile. Journal of Photochemistry and Photobiology A: Chemistry, 2005, 172, 170-179.	3.9	57
8	Singlet oxygen formation efficiencies following quenching of excited singlet and triplet states of aromatic hydrocarbons by molecular oxygen. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 142, 133-143.	3.9	48
9	Charge-Transfer and Non-Charge-Transfer Processes Competing in the Sensitization of Singlet Oxygen:â€‰ Formation of O2(1Î£g+), O2(1Î”g), and O2(3Î£g-) during Oxygen Quenching of Triplet Excited Naphthalene Derivatives. Journal of Physical Chemistry A, 2001, 105, 1811-1817.	2.5	45
10	Electronic to vibrational energy conversion and charge transfer contributions during quenching by molecular oxygen of electronically excited triplet statesDedicated to Professor Frank Wilkinson on the occasion of his retirement.. Physical Chemistry Chemical Physics, 2002, 4, 248-254.	2.8	43
11	Photosensitized generation of singlet oxygen from ruthenium(II)-substituted benzoaza-crown-bipyridine complexes. Physical Chemistry Chemical Physics, 2000, 2, 3137-3144.	2.8	38
12	Effect of nano sand on the properties of metakaolin-based geopolymer: Study on its low rate sintering. Construction and Building Materials, 2020, 246, 118486.	7.2	37
13	Effect of Î²-cyclodextrin on the excited state proton transfer in 1-naphthol-2-sulfonate. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2001, 57, 1819-1828.	3.9	36
14	Solvent effects on the photophysical properties of 9,10-dicyanoanthracene. Physical Chemistry Chemical Physics, 2002, 4, 161-167.	2.8	36
15	Mechanism of quenching by oxygen of the excited states of ruthenium(ii) complexes in aqueous media. Solvent isotope effect and photosensitized generation of singlet oxygen, O2(1Î”g), by [Ru(diimine)(CN)4]2âˆ'complex ions. Dalton Transactions, 2007, , 2517-2527.	3.3	36
16	Spectroscopic studies on the inclusion complex of 2-naphthol-6-sulfonate with Î²-cyclodextrin. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2007, 66, 732-738.	3.9	34
17	Fluorescence enhancement of 1-napthol-5-sulfonate by forming inclusion complex with Î²-cyclodextrin in aqueous solution. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2009, 72, 533-537.	3.9	34
18	In-situ formation of geopolymer foams through addition of silica fume: Preparation and sinterability. Materials Chemistry and Physics, 2020, 239, 121998.	4.0	33

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19	Factors Affecting the Rate of Decay of the First Excited Singlet State of Molecular Oxygen O2(aÎ”g) in Supercritical Fluid Carbon Dioxide. Journal of Physical Chemistry A, 2001, 105, 1270-1276.	2.5	32
20	Inclusion complex of 2-naphthylamine-6-sulfonate with Î²-cyclodextrin: Intramolecular charge transfer versus hydrogen bonding effects. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2007, 66, 1228-1236.	3.9	25
21	On the efficiency of the photosensitized production of singlet oxygen in water suspensions of a tris(bipyridyl)ruthenium(II) complex covalently bound to an insoluble hydrophilic polymer. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 138, 65-68.	3.9	21
22	Ruthenium, osmium and rhodium-2,3-bis(2â€²-pyridyl)quinoxaline complexes. Transition Metal Chemistry, 2002, 27, 69-74.	1.4	21
23	Flow injection fluorimetric determination of chromium(VI) in electroplating baths by luminescence quenching of tris(2,2â€²-bipyridyl) ruthenium(II). Talanta, 2005, 67, 696-702.	5.5	21
24	Partial charge transfer contribution to the solvent isotope effect and photosensitized generation of singlet oxygen, O2(1Î”g), by substituted ruthenium(ii) bipyridyl complexes in aqueous media. Photochemical and Photobiological Sciences, 2014, 13, 1330-1337.	2.9	15
25	Effect of solvent and encapsulation in Î²-cyclodextrin on the photophysical properties of 4-[5-(thiophen-2-yl)furan-2-yl]benzamidine. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 316, 52-61.	3.9	15
26	Solvatochromism of 1-naphthol-4-sulfonate photoacid and its encapsulation in cyclodextrin derivatives. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 369, 202-211.	3.9	15
27	Photosensitised production of singlet oxygen, (Î”), in the unique `heavy-atom' solvent, supercritical fluid xenon. Pressure dependence of electronic to vibrational energy conversion during quenching of (Î”) by xenon and by ground state oxygen. Chemical Physics Letters, 2001, 343, 273-280.	2.6	13
28	Solvatochromic behavior of D-Ï€-A bithiophene carbonitrile derivatives. Journal of Molecular Liquids, 2019, 286, 110856.	4.9	11
29	Photophysical properties and fluorosolvatochromism of Dâ€“Ï€â€“A thiophene based derivatives. RSC Advances, 2020, 10, 43459-43471.	3.6	11
30	Photoacids as singlet oxygen photosensitizers: Direct determination of the excited state acidity by time-resolved spectroscopy. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 364, 819-825.	3.9	10
31	Photosensitized production of singlet oxygen and factors governing its decay in xenon and carbon dioxide supercritical fluids. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 186, 263-269.	3.9	9
32	Spectrophotometric Determination of Manganese by Using Redox Reaction of Tris(2,2'-bipyridine)osmium(II) with Mn7+. Analytical Sciences, 2006, 22, 825-828.	1.6	6
33	Effects on the photophysical properties of naphthylamine derivatives upon their inclusion in cyclodextrin nanocavities. Journal of Molecular Liquids, 2020, 311, 113319.	4.9	6
34	Factors Affecting the Efficiency of Excited-States Interactions of Complexes between Some Visible Light-Emitting Lanthanide Ions and Cyclophanes Containing Spirobiindanol Phosphonates. International Journal of Photoenergy, 2007, 2007, 1-7.	2.5	5
35	Solvent polarity indicators based on bithiophene carboxamidine hydrochloride salt derivatives. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 404, 112933.	3.9	5
36	Luminescence quenching of [Os(bpy)3]2+ by Mn7+, Cr6+ and Ce4+ ions in acidic aqueous solution. Journal of Luminescence, 2014, 155, 282-287.	3.1	4

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37	Antiprotozoal agents as water soluble singlet oxygen photosensitizers: Imidazo[1,2-a]pyridine and 5,6,7,8-tetrahydro-imidazo[1,2-a]pyridine derivatives. Journal of Luminescence, 2017, 181, 164-170.	3.1	4
38	The temperature dependent electrical transport in biphenyl derivatives. Current Applied Physics, 2006, 6, 71-75.	2.4	3
39	Spectroscopic studies on the inclusion complex formation between 7-iodo-8-hyroxyquinoline-5-sulfonic acid and Î²-cyclodextrin. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2010, 67, 7-11.	1.6	3
40	Luminescence Quenching of Ru(II)-Diimine Complexes with Cr(VI) Ions: Steady-State and Time-Resolved Studies. Journal of Photochemistry and Photobiology A: Chemistry, 2021, , 113635.	3.9	2