

Mohammad Sadegh Zakerhamidi

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.

113
papers

1,312
citations

20
h-index

29
g-index

118
ext. papers

1,487
ext. citations

3.9
avg, IF

4.82
L-index

#	Paper	IF	Citations
113	Temperature-dependent dielectric property of a nematic liquid crystal doped with two differently shaped tungsten oxide (W18O49) nanostructures. <i>Journal of Molecular Liquids</i> , 2021 , 348, 118024	6	0
112	Temperature dependent features of polymer stabilized cholesteric liquid crystals based on selected liquid crystal characteristics. <i>Optik</i> , 2021 , 230, 166354	2.5	3
111	Treatment of the ZnO and TiO ₂ Thin Films by Electric Field in Plasma Sheath to Improve the Metal-Dye Electronic Coupling in Dye-Sensitized Solar Cells. <i>Surfaces and Interfaces</i> , 2021 , 23, 101028	4.1	2
110	Dielectric and electro optical properties of 6CHBT nematic liquid crystals doped with MgO nanoparticles. <i>Liquid Crystals</i> , 2021 , 48, 1417-1428	2.3	2
109	Facile fabricating of rGO and Au/rGO nanocomposites using Brassica oleracea var. gongylodes biomass for non-invasive approach in cancer therapy. <i>Scientific Reports</i> , 2021 , 11, 11900	4.9	4
108	Changes of the TiO ₂ thin film electro-optical properties in the Ar and N ₂ glow discharge plasma due to effects of the electric field in plasma sheath. <i>Physica B: Condensed Matter</i> , 2021 , 612, 412820	2.8	2
107	Linear and nonlinear optical properties of human hemoglobin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 244, 118855	4.4	0
106	Effect of the electric field in glow discharge plasma sheath on the optoelectronic properties of the Al _x Zn _{1-x} O thin films. <i>Optik</i> , 2021 , 239, 166772	2.5	1
105	Contribution of environment polarity effects on the nonlinear hyperpolarizability and linear optical characteristics of some phenothiazines. <i>Journal of Molecular Liquids</i> , 2021 , 336, 116328	6	
104	Relationship of pitch length of cholesteric liquid crystals with order parameter and normalized polarizability. <i>Optical Materials</i> , 2021 , 119, 111373	3.3	1
103	Solvent polarity sensitive characteristics of various tautomers of azo compounds: Linear and nonlinear optical properties. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020 , 239, 118445	4.4	3
102	Investigation of the spectroscopic features along with the media polarity effect in some symmetrical disc-shaped liquid crystals. <i>Journal of Molecular Liquids</i> , 2020 , 309, 113226	6	1
101	Dispersion engineering of two-dimensional photonic crystals composed of graphene-covered tellurium rods. <i>Optik</i> , 2020 , 219, 165235	2.5	1
100	Characterization of short-range molecular interaction by empirical solvent polarity scale to analyze the Kerr effect of nematic liquid crystals in the isotropic phase. <i>Journal of Molecular Liquids</i> , 2019 , 295, 111653	6	0
99	Two-Dimensional Hybrid Photonic Crystal With Graded Low-Index Using a Nonuniform Voltage. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2019 , 75, 65-71	1.4	
98	Investigation of interactional behavior and relative photo-physical properties in a group of bioactive compounds. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019 , 381, 111873	4.7	2
97	Continuous microfluidic fabrication of polypyrrole nanoparticles.. <i>RSC Advances</i> , 2019 , 9, 16977-16988	3.7	7

96	A method to find the initial temperature range of the short-range order in the isotropic phase of nematic liquid crystals based on the electro-optical Kerr effect. <i>Journal of Molecular Liquids</i> , 2019 , 274, 646-652	6	1
95	Investigation on environmental sensitivity characteristics of pyridine compounds with different position of N-atoms and various active functional groups. <i>Journal of Molecular Liquids</i> , 2019 , 275, 926-940	6	3
94	Study of the variation of intra/intermolecular interactions and configuration of a group of Enone anticancer drugs as a result of solvation. <i>Journal of Molecular Liquids</i> , 2019 , 274, 1-14	6	7
93	A novel synthesis of magnetic and photoluminescent graphene quantum dots/MFe ₂ O ₄ (M = Ni, Co) nanocomposites for catalytic application. <i>Applied Surface Science</i> , 2018 , 443, 484-491	6.7	28
92	A comparative study of media polarity effects on the linear and third-order nonlinear optical responses of thiazine dyes. <i>Canadian Journal of Physics</i> , 2018 , 96, 337-342	1.1	3
91	The Roles of Solute-Solute and Solute-Solvent Interactions on the Nonlinearity of Aqueous Solutions of Ionic Dyes. <i>Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences</i> , 2018 , 73, 785-794	1.4	2
90	New linear solvation energy relationships for empirical solvent scales using the Kamlet-Abboud-Taft parameter sets in nematic liquid crystals.. <i>RSC Advances</i> , 2018 , 8, 22835-22845	3.7	6
89	Optical anisotropy, order parameter and its critical behavior in temperature-dependent refractive indices of nematic liquid crystals. <i>Journal of Molecular Liquids</i> , 2018 , 268, 536-544	6	10
88	Solvent specific and nonspecific interactions effects on nonlinear optical responses of Cresyl Violet dye. <i>Journal of Molecular Liquids</i> , 2018 , 268, 529-535	6	3
87	Cd(II) and Cu(II) coordination polymers constructed from the expanded 1,4-bis(4-pyridyl)-2,3-diaza-1,3-butadiene ligand: conventional and ultrasound-assisted synthesis, crystal structure, luminescence and magnetic properties. <i>New Journal of Chemistry</i> , 2018 , 42, 15860-15870	3.6	4
86	Near-Infrared Visual Differentiation in Normal and Abnormal Breast Using Hemoglobin Concentrations. <i>Journal of Lasers in Medical Sciences</i> , 2018 , 9, 50-57	1.6	3
85	Media polarity and concentration roles on the third order nonlinear behaviors of thiazine dyes. <i>Optics and Laser Technology</i> , 2018 , 100, 216-224	4.2	6
84	Liquid Crystalline Nanomaterials Extracted from Egg Yolk: Encapsulation and Characterization of Their Electro-Optical Activity as Potential Materials for Flexible LCD Displays. <i>Journal of Electronic Materials</i> , 2018 , 47, 7143-7150	1.9	0
83	Pectin modification assisted by nitrogen glow discharge plasma. <i>International Journal of Biological Macromolecules</i> , 2018 , 120, 2572-2578	7.9	19
82	Physical model for temperature-dependent dielectric properties of anisotropic nematic liquid crystals. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 19294-19306	3.6	6
81	Environment effects on the nonlinear absorption properties of Methylene blue under different power of excitation beam. <i>Journal of Molecular Liquids</i> , 2017 , 229, 548-554	6	16
80	Order parameter and crossover temperature from temperature-dependent refractive indices for low birefringence liquid crystals. <i>Journal of Molecular Liquids</i> , 2017 , 230, 280-289	6	13
79	Media and solute-solvent interaction effects on the photo-physical behavior of some drugs of 4H ₂ Pyran derivatives. <i>Journal of Molecular Liquids</i> , 2017 , 238, 508-517	6	8

78	Photo-physical and interactional behavior of two members of group B vitamins in different solvent media. <i>Journal of Molecular Structure</i> , 2017 , 1144, 265-272	3.4	7
77	Linear dichroism and order parameters of nematics doped with azo dyes. <i>Molecular Crystals and Liquid Crystals</i> , 2017 , 647, 107-118	0.5	5
76	2D holodirected lead(II) halide coordination polymers based on rigid N,N'-bis(4-pyridylmethylidene) phenylene-1,4-diamine ligand: Syntheses, crystal structures, NBO studies and luminescence properties. <i>Polyhedron</i> , 2017 , 129, 38-45	2.7	11
75	Photo-physical behaviors of various active forms of curcumin in polar and low polar environments. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017 , 348, 188-198	4.7	7
74	Optical and Structural Effects due to the Control of Organic and Inorganic Composition Percentage in CH ₃ NH ₃ PbBr ₃ Perovskite 2017 , 41, 873-881		3
73	Third order nonlinear responses of Basic Blue 55 molecules in polar solvents. <i>Optik</i> , 2017 , 130, 743-749	2.5	6
72	The interactional behaviors and photo-physical properties of two triarylmethane drugs in solvent media. <i>Journal of Molecular Liquids</i> , 2017 , 225, 653-661	6	8
71	Construction of new 1D and 2D coordination polymers generated from rigid N,N'-bis(4-pyridylmethylene)-1,5-naphthalenediamine ligand: Syntheses, crystal structures and luminescence properties. <i>Inorganica Chimica Acta</i> , 2017 , 455, 158-165	2.7	7
70	Environment effect on spectral and charge distribution characteristics of some drugs of folate derivatives. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017 , 171, 10-17	4.4	13
69	Determination of polarity parameters for liquid crystals using solvatochromic method in anisotropic and isotropic phases. <i>Liquid Crystals</i> , 2017 , 44, 695-704	2.3	5
68	The acoustical sensor: The photoacoustic effect in an azo-dye. <i>Dyes and Pigments</i> , 2016 , 125, 132-135	4.6	12
67	Photo-Physical Response of Two Triazole Compounds Against Solvent Polarity. <i>Zeitschrift Fur Physikalische Chemie</i> , 2016 , 230, 1575-1589	3.1	3
66	Role of specific and nonspecific intermolecular interaction in electro-optical response of doped 6CHBT nematic liquid crystal with azo dyes. <i>Journal of Molecular Liquids</i> , 2016 , 221, 608-616	6	11
65	Study of molecular aggregation effects on the nonlinear refractive index and absorption of Oxazin 720 laser dye. <i>Canadian Journal of Physics</i> , 2016 , 94, 834-838	1.1	3
64	Solvatochromism Effects on the Photo-Physical Behavior of Two Triazole Compounds. <i>Zeitschrift Fur Physikalische Chemie</i> , 2016 , 230, 1561-1574	3.1	3
63	Hydrogen bonding intermolecular effect on electro-optical response of doped 6PCH nematic liquid crystal with some azo dyes. <i>Optical Materials</i> , 2016 , 55, 121-129	3.3	12
62	Plasma surface modification as a new approach to protect urinary catheter against biofilm formation. <i>Iranian Journal of Microbiology</i> , 2016 , 8, 257-262	0.9	4
61	Assessing Absorption Coefficient of Hemoglobin in the Breast Phantom Using Near-Infrared Spectroscopy. <i>Iranian Journal of Radiology</i> , 2016 , 13, e31581	1.4	2

60	Environment and solute-solvent interaction effects on photo-physical behaviors of Folic acid and Folinic acid drugs. <i>Journal of Molecular Structure</i> , 2016 , 1125, 177-185	3.4	11
59	Ordering Behavior and Linear Dichroism of Pure and Doped Liquid Crystals. <i>Molecular Crystals and Liquid Crystals</i> , 2015 , 613, 149-155	0.5	3
58	The interactional behaviors and photo-physical properties of azo-salicylaldehyde ligands in solvents media. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 150, 696-703	4.4	2
57	Polarity functions characterization and the mechanism of starch modification by DC glow discharge plasma. <i>Carbohydrate Polymers</i> , 2015 , 127, 72-8	10.3	25
56	Dichroic ratio and order parameters of some sudan dyes doped in nematic liquid crystalline matrix. <i>Optik</i> , 2015 , 126, 5473-5477	2.5	13
55	Solvent effects on the molecular resonance structures and photo-physical properties of a group of oxazine dyes. <i>Journal of Luminescence</i> , 2015 , 157, 220-228	3.8	19
54	Photo-physical properties of different types of vitamin A in solvent media. <i>Journal of Molecular Structure</i> , 2015 , 1080, 8-13	3.4	7
53	The specific and nonspecific solvatochromic behavior of Sudan dyes in different solvents. <i>Canadian Journal of Chemistry</i> , 2015 , 93, 639-647	0.9	3
52	Fe ₃ O ₄ nanoparticle effect on dielectric and ordering behavior of nematic liquid crystal host. <i>Journal of Molecular Liquids</i> , 2014 , 191, 16-19	6	34
51	Photo-physical behavior of some antitumor anthracycline in solvent media with different polarity. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 130, 257-62	4.4	4
50	Cyano azobenzene polymer films: Photo-induced reorientation and birefringence behaviors with linear and circular polarized light. <i>Optical Materials</i> , 2014 , 38, 228-232	3.3	5
49	Green-Yellow Electroluminescence from a host-dopant blended system as the active layer in a bilayer polymer light emitting diode: Poly(n-vinyl carbazole) as the host and a new soluble thiophene based copolymer [poly(2,2'-BT)-co-(3-DDT)] as the dopant. <i>Optical Materials</i> , 2014 , 37, 760-765	3.3	10
48	Investigation of the optical bistability in the PMMA polymer doped with MNA. <i>Journal of Molecular Liquids</i> , 2014 , 199, 79-82	6	0
47	Microwave promoted synthesis of smart superporous poly (dimethylaminoethyl methacrylate-co-acrylamide) hydrogels and study of Kamlet-Abboud-Taft polarity functions for obtained materials. <i>Journal of Polymer Research</i> , 2014 , 21, 1	2.7	7
46	Polar and low polar solvents media effect on dipole moments of some diazo Sudan dyes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 127, 340-8	4.4	18
45	Substituent and solvent effects on the dipole moments and photo-physical properties of a group of polymeric azo sulfonamide substances. <i>Journal of Molecular Structure</i> , 2013 , 1048, 441-447	3.4	5
44	Optimizing experimental parameters on OPC in PMMA polymer doped azo dye. <i>Journal of Molecular Liquids</i> , 2013 , 182, 102-105	6	4
43	Solvatochromic solvent polarity parameters for the characterisation of some cyanobiphenyl nematic liquid crystals. <i>Liquid Crystals</i> , 2013 , 40, 1195-1201	2.3	8

42	Aggregative properties of Rhodamine dyes in polyacrylamide hydrophilic gel media. <i>Journal of Molecular Structure</i> , 2013 , 1033, 289-297	3.4	10
41	Substituent and solvent effects on the spectroscopic properties and dipole moments of hydroxyl benzaldehyde azo dye and related Schiff bases. <i>Journal of Molecular Liquids</i> , 2013 , 180, 225-234	6	44
40	Dielectric anisotropy, refractive indices and order parameter of W-1680 nematic liquid crystal. <i>Journal of Molecular Liquids</i> , 2013 , 181, 77-81	6	18
39	Optical bistability of azo dye-doped PMMA polymer. <i>Optical Materials</i> , 2013 , 35, 1619-1622	3.3	11
38	Determination of solvatochromic solvent polarity parameters for the characterisation of some nematic liquid crystal in anisotropic and isotropic phases. <i>Liquid Crystals</i> , 2013 , 40, 22-30	2.3	14
37	The effects of polymer molecular weight on the performance of single-layer polymer light emitting diodes. <i>Physica Scripta</i> , 2013 , T157, 014028	2.6	4
36	Polymeric cyanide azo compounds dipole moments and photo-physical properties in solvents media. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 114, 148-53	4.4	5
35	Solvatochromism of Nile red in anisotropic media. <i>Dyes and Pigments</i> , 2012 , 92, 1052-1057	4.6	43
34	Solvatochromism, tautomerism and dichroism of some azoquinoline dyes in liquids and liquid crystals. <i>Dyes and Pigments</i> , 2012 , 92, 1320-1330	4.6	27
33	Nonlinear refractive index of some anthraquinone dyes in 1294-1b liquid crystal. <i>Optics Communications</i> , 2012 , 285, 761-765	2	15
32	Anisotropic and isotropic solvent effects on the dipole moment and photophysical properties of rhodamine dyes. <i>Journal of Luminescence</i> , 2012 , 132, 931-937	3.8	44
31	Hydrophilic gel composition effect on the molecular association and spectroscopic behavior of rhodamine B. <i>Canadian Journal of Chemistry</i> , 2012 , 90, 776-783	0.9	2
30	Order parameters and refractive indices of some cyano-benzoate nematic liquid crystals with high transition temperatures. <i>Journal of Molecular Liquids</i> , 2012 , 172, 41-45	6	20
29	Solvatochromism effects on the dipole moments and photo-physical behavior of some azo sulfonamide dyes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 85, 105-114	4.4	4
28	Order Parameters and Refractive Indices of Two Carboxylate Nematic Liquid Crystals With Negative Dielectric Anisotropy. <i>Molecular Crystals and Liquid Crystals</i> , 2012 , 569, 92-102	0.5	8
27	Solvent Effects on the UV/ Visible Absorption Spectra of Some Aminoazobenzene Dyes. <i>Chemical Science Transactions</i> , 2012 , 1, 1-8	0.3	35
26	Determination of Temperature Dependence of Kerr Constant for Nematic Liquid Crystal. <i>Molecular Crystals and Liquid Crystals</i> , 2011 , 544, 227/[1215]-231/[1219]	0.5	3
25	A comparative study on the aggregate formation of two oxazine dyes in aqueous and aqueous urea solutions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 83, 100-5	4.4	27

24	Dimeric spectra analysis in Microsoft Excel: a comparative study. <i>Computer Methods and Programs in Biomedicine</i> , 2011 , 104, 175-81	6.9	15
23	Substituent and solvent effects on the dipole moments and photophysical properties of two azo sulfonamide dyes. <i>Journal of Molecular Structure</i> , 2011 , 996, 95-100	3.4	20
22	Estimation of ground- and excited-state dipole moments of oxazine 1 in liquid and liquid crystalline media. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 79, 148-55	4.4	9
21	Investigation of the Kerr effect and third-order susceptibility constants in a nematic liquid crystal. <i>Journal of Molecular Liquids</i> , 2011 , 161, 41-43	6	5
20	Effect of anisotropic and isotropic solvent on the dipole moment of coumarin dyes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 78, 961-6	4.4	24
19	Intramolecular and intermolecular hydrogen-bonding effects on the dipole moments and photophysical properties of some anthraquinone dyes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011 , 79, 74-81	4.4	24
18	Infrared Linear-Dichroism (IR-LD) Study of the Nematic Liquid Crystals Doped with Polymer. <i>Molecular Crystals and Liquid Crystals</i> , 2011 , 547, 135/[1825]-141/[1831]	0.5	2
17	Effect of polyacrylamide hydrophilic gel composition on photo-physical behavior of Oxazine 750. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010 , 77, 164-9	4.4	6
16	Substituent and solvent effects on the photo-physical properties of some coumarin dyes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010 , 77, 337-41	4.4	30
15	Anisotropic media effect on the dipole moment of some coumarin dyes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010 , 77, 767-72	4.4	23
14	Effect of hydrophilic gel composition on photo-physical behavior of Oxazine720. <i>Journal of Molecular Liquids</i> , 2010 , 154, 18-22	6	6
13	Isotropic and anisotropic environment effects on the UV/vis absorption spectra of three disperse azo dyes. <i>Journal of Molecular Liquids</i> , 2010 , 154, 94-101	6	33
12	Refractive indices and order parameters of some tolane-based nematic liquid crystals. <i>Journal of Molecular Liquids</i> , 2010 , 157, 119-124	6	35
11	Nonlinear optical properties of two oxazine dyes in aqueous solution and polyacrylamide hydrogel using single beam Z-scan. <i>Optical Materials</i> , 2009 , 32, 12-17	3.3	29
10	Effects of surfactants on the molecular aggregation of rhodamine dyes in aqueous solutions. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009 , 72, 697-702	4.4	63
9	The photophysical properties of Nile red and Nile blue in ordered anisotropic media. <i>Dyes and Pigments</i> , 2008 , 78, 15-24	4.6	67
8	Photo-physical behavior of thiazine dyes with or without surfactants into poly-HEMA hydrophilic gel matrix. <i>Journal of Molecular Liquids</i> , 2008 , 143, 81-88	6	18
7	Guest-host interaction of some aminoazobenzene dyes doped in liquid crystalline matrix. <i>Journal of Molecular Liquids</i> , 2007 , 136, 22-28	6	32

6	Effect of poly-HEMA hydrophilic gel environment on the photo-physical behavior of rhodamine dyes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2005 , 61, 659-63	4.4	13
5	Absorption anisotropy and molecular association of some ionic dyes in liquid crystalline solution. <i>Journal of Molecular Liquids</i> , 2004 , 109, 149-154	6	16
4	Electric linear dichroism study of some Sudan dyes using electro-optic and spectroscopic methods. <i>Journal of Molecular Liquids</i> , 2004 , 109, 143-148	6	25
3	The anion effect and molecular association of rhodamine dyes in isotropic and anisotropic solvents. <i>Journal of Molecular Liquids</i> , 2004 , 115, 55-61	6	14
2	Optical and Structural Effects Due to the Control of Organic and Inorganic Composition Percentage in CH ₃ NH ₃ PbBr ₃ Perovskite. <i>Iranian Journal of Science and Technology, Transaction A: Science</i> ,	3	1
1	MgO nanoparticles dispersion effects in electro optical parameters of 5CB nematic liquid crystal. <i>Molecular Crystals and Liquid Crystals</i> , 1-12	0.5	