

Hamid Khanmohammadi

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50 papers	885 citations	18 h-index	27 g-index
50 ext. papers	948 ext. citations	3.7 avg, IF	4.54 L-index

#	Paper	IF	Citations
50	Construction of a chemically modified electrode for the selective determination of nitrite and nitrate ions based on a new nanocomposite. <i>Electrochimica Acta</i> , 2012 , 66, 255-264	6.7	87
49	New azo ligands containing azomethine groups in the pyridazine-based chain: Synthesis and characterization. <i>Dyes and Pigments</i> , 2009 , 81, 167-173	4.6	68
48	Naked-eye detection of inorganic fluoride in aqueous media using a new azo-azomethine colorimetric receptor enhanced by electron withdrawing groups. <i>RSC Advances</i> , 2014 , 4, 1032-1038	3.7	57
47	Simultaneous determination of Co ²⁺ , Ni ²⁺ , Cu ²⁺ and Zn ²⁺ ions in foodstuffs and vegetables with a new Schiff base using artificial neural networks. <i>Talanta</i> , 2009 , 77, 995-1001	6.2	45
46	Synthesis, crystal structure, NMR and ab initio molecular-orbital studies of some magnesium(II) macrocyclic Schiff-base complexes, with two 2-aminoethyl pendant arms. <i>Inorganica Chimica Acta</i> , 2004 , 357, 1283-1291	2.7	38
45	Synthesis, biological and computational study of new Schiff base hydrazones bearing 3-(4-pyridine)-5-mercapto-1,2,4-triazole moiety. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008 , 71, 1474-80	4.4	36
44	Synthesis and characterization of Mg(II), Mn(II), Zn(II) and Cd(II) complexes with a new heptaaza Schiff base pendant-armed macrocycle: X-ray crystal structure, NMR and computational study. <i>Inorganica Chimica Acta</i> , 2007 , 360, 579-587	2.7	32
43	New diaminomaleonitrile-based azo-azomethine dyes; synthesis, characterization and spectral properties. <i>Dyes and Pigments</i> , 2012 , 94, 163-168	4.6	29
42	Azo-azomethine dyes with N, O, S donor set of atoms and their Ni(II) complexes: Synthesis, characterization and spectral properties. <i>Dyes and Pigments</i> , 2013 , 98, 557-564	4.6	28
41	Studies on a multifunctional chromo-fluorogenic sensor for dual channel recognition of Zn ²⁺ and CN ⁻ ions in aqueous media: mimicking multiple molecular logic gates and memory devices. <i>New Journal of Chemistry</i> , 2018 , 42, 2158-2166	3.6	26
40	Synthesis and crystal structure determination of some novel zinc(II) macrocyclic heptaaza Schiff-base complexes with two 2-aminoethyl pendant arms. <i>Inorganica Chimica Acta</i> , 2003 , 355, 286-291	2.7	25
39	Chitosan hydrogels cross-linked with tris(2-(2-formylphenoxy)ethyl)amine: Swelling and drug delivery. <i>International Journal of Biological Macromolecules</i> , 2018 , 118, 1863-1870	7.9	24
38	Naked-eye detection of biologically important anions by a new chromogenic azo-azomethine sensor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 133, 31-7	4.4	21
37	New 1,2,4-triazole-based azo-azomethine dyes. Part I: synthesis, characterization and spectroscopic studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 86, 39-43	4.4	20
36	Double-decker luminescent ytterbium and erbium SMMs with symmetric and asymmetric Schiff base ligands. <i>New Journal of Chemistry</i> , 2017 , 41, 10101-10111	3.6	20
35	New acyclic 1,2,4-triazole-based Schiff base hydrazone: synthesis, characterization, spectrophotometric and computational studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013 , 105, 338-43	4.4	19
34	Spectrophotometric determination of acidity and tautomeric constants and hydrogen bonding strength for a new Schiff base using hard modeling and multivariate curve resolution alternative least squares methods. <i>Analytica Chimica Acta</i> , 2009 , 634, 180-5	6.6	19

33	Synthesis, crystal structures and ab initio studies of some heptaaza manganese(II) macrocyclic Schiff-base complexes with two 2-aminoethyl pendant arms. <i>Inorganica Chimica Acta</i> , 2005 , 358, 247-256 ^{2.7}	19
32	Thermally stable water insoluble azo-azomethine dyes: synthesis, characterization and solvatochromic properties. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 97, 652-8	4.4 18
31	Spectrophotometric Determination of Complex Formation Constants Between a New Schiff Base and Some Transition Metals by Rank Annihilation Factor Analysis. <i>Journal of Chemical & Engineering Data</i> , 2009 , 54, 866-870	2.8 16
30	Solvatochromism, spectral properties and antimicrobial activities of new azo-azomethine dyes with N2S2O2 donor set of atoms. <i>Journal of Molecular Structure</i> , 2014 , 1072, 232-237	3.4 15
29	Rational design of a novel azoimine appended maleonitrile-based Salen chemosensor for rapid naked-eye detection of copper(II) ion in aqueous media. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 151, 848-53	4.4 14
28	Two and three input molecular logic operations mediated by a novel azo-azomethine based chromogenic probe through intramolecular charge transfer processes. <i>New Journal of Chemistry</i> , 2015 , 39, 2081-2089	3.6 14
27	Molecular logic circuits and a security keypad lock based on a novel colorimetric azo receptor with dual detection ability for copper(II) and fluoride ions. <i>Supramolecular Chemistry</i> , 2016 , 28, 256-266	1.8 14
26	New 1,2,4-triazole-based azo-azomethine dyes. Part II: synthesis, characterization, electrochemical properties and computational studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2012 , 97, 876-84	4.4 14
25	A catalyst-free approach to a novel imidazo [4,5-f][1,10] phenanthroline ligand and its corresponding ruthenium(II) complex: insights into their applications in colorimetric anion sensing. <i>New Journal of Chemistry</i> , 2014 , 38, 5536-5543	3.6 13
24	Colorimetric detection of anions in aqueous media using N-monosubstituted diaminomaleonitrile-based azo-azomethine receptors: real-life applications. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015 , 139, 405-12	4.4 12
23	Synthesis, crystal structure and spectroscopic properties of some cadmium(II) complexes with three polyamine and corresponding macrocyclic Schiff base ligands. <i>Journal of Organometallic Chemistry</i> , 2008 , 693, 2237-2243	2.3 12
22	New 1,2,4-triazole-based azo-azomethine dye. Part III: Synthesis, characterization, thermal property, spectrophotometric and computational studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014 , 125, 345-52	4.4 11
21	Synthesis and biological activity of Magnesium(II) complexes of heptaaza Schiff base macrocyclic ligands; ¹ H and ¹³ C chemical shifts computed by the GIAO-DFT and CSGT-DFT methodologies. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2009 , 63, 97-108	11
20	Synthesis, characterization, biological and thermal studies of Cu(II) complexes of salen and tetrahydrosalen ligands. <i>Journal of the Iranian Chemical Society</i> , 2009 , 6, 300-309	2 11
19	A new azo-azomethine sensor for detection of CN and AcO ⁻ anions: Highly selective chemosensor for naked eye detection of sodium diclofenac. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019 , 222, 117157	4.4 10
18	Diaminomaleonitrile-based azo receptors: Synthesis, DFT studies and their antibacterial activities. <i>Journal of Molecular Structure</i> , 2017 , 1129, 169-178	3.4 10
17	Selective detection of Cu and Co in aqueous media: Asymmetric chemosensors, crystal structure and spectroscopic studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017 , 179, 32-41	4.4 9
16	Solvatochromic and electrochemical properties of new thermally stable azo-azomethine dyes with N2S2O2 donor set of atoms. <i>Journal of Molecular Liquids</i> , 2013 , 177, 198-203	6 9

15	New asymmetric heptaaza Schiff base macrocyclic complex of Mn(II): Crystal structure, biological and DFT studies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010 , 77, 342-7	4.4	9
14	Synthesis, crystal structure, spectral and biological studies of CuII/III(M = Zn and Pb) heterodinuclear complexes of new phenol-based macrocyclic ligands. <i>Polyhedron</i> , 2007 , 26, 4963-4970	2.7	9
13	Detection of CN ⁻ /Cu ²⁺ and Zn ²⁺ ions using a new chromone-based colorimetric chemosensor: half-adder and integrated circuits. <i>Analytical Methods</i> , 2020 , 12, 1759-1766	3.2	8
12	Synthesis of two new tripodal ligands and their cyclocondensation with 2-[2-(2-formylphenoxy)ethoxy]benzaldehyde in the presence of manganese(II) and cadmium(II) metal ions. <i>Polyhedron</i> , 2008 , 27, 1631-1638	2.7	8
11	Investigation of oxidation and tautomerization of a recently synthesized Schiff base in micellar media using multivariate curve resolution alternative least squares and rank annihilation factor analysis methods. <i>Analytica Chimica Acta</i> , 2009 , 647, 189-94	6.6	7
10	Interaction of new polyamine ligand N, N, N', N'-tetrakis(2-salicylideneaminoethyl)butane-1,4-diamine with iodine in chloroform and dichloromethane solutions. <i>Physics and Chemistry of Liquids</i> , 2008 , 46, 372-378	1.5	5
9	Rapid detection of HSO ⁻ in water: Novel immobilized azo-azomethine colorimetric anion receptors on solid supports. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 199, 21-31	4.4	3
8	Copper(II) Complexes of Pyridazine-Based Azo-azomethine Ligands: Synthesis, Characterization Thermal and Absorption Properties. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2011 , 21, 541-546	3.2	3
7	Pyridazine-based Schiff base ligands with N ₄ O _x S ₂ (x=2, 4) donor set atoms: synthesis, characterization, spectral studies and ¹³ C chemical shifts computed by the GIAO-DFT and CSGT-DFT methodologies. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010 , 75, 127-33	4.4	3
6	Synthesis, Characterization, and an ab initio Study of a Manganese(II) Macrocyclic Schiff-Base Complex with Two 2-Aminoethyl Pendant Arms. <i>Transition Metal Chemistry</i> , 2004 , 29, 523-527	2.1	2
5	Solar-light induced photodecolorization of water soluble azo-azomethine dye: influence of operational parameters and nanophotocatalysts. <i>Desalination and Water Treatment</i> , 2015 , 55, 655-663		1
4	Novel MCM-41 based chromogenic probe: highly selective and sensitive upon cyanide ion over other interfering anions in water. <i>Journal of Porous Materials</i> , 2022 , 29, 807-815	2.4	1
3	Rational Design of Azo-Azomethine Receptors for Sensing of Inorganic Fluoride: Construction of Molecular Logic Gates and DFT Study. <i>Australian Journal of Chemistry</i> , 2017 , 70, 1254	1.2	
2	Mononuclear copper(II) complexes of bis-triazole-based macrocyclic Schiff base hydrazones: direct synthesis, EPR studies, magnetic and thermal properties. <i>Journal of the Iranian Chemical Society</i> , 2014 , 11, 323-333	2	
1	Sequential Detection of CN ⁻ and HSO ₄ ⁻ Anions in an Aqueous Environment Utilizing a New Colorimetric Azoimine Receptor: Mimicking Logic Gate Behaviour and a Security Keypad Lock. <i>Australian Journal of Chemistry</i> , 2018 , 71, 389	1.2	