

Tapan Kumar Mondal

List of Publications by Year in descending order

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135
papers

2,942
citations

186265

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44
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all docs

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docs citations

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times ranked

3138
citing authors

#	ARTICLE	IF	CITATIONS
1	A red fluorescence "off-on" molecular switch for selective detection of Al ³⁺ , Fe ³⁺ and Cr ³⁺ : experimental and theoretical studies along with living cell imaging. <i>Chemical Communications</i> , 2013, 49, 10739.	4.1	170
2	Radical Pathway in Catecholase Activity with Zinc-Based Model Complexes of Compartmental Ligands. <i>Inorganic Chemistry</i> , 2012, 51, 8750-8759.	4.0	105
3	Azo Anion Radical Complex of Rhodium as a Molecular Memory Switching Device: Isolation, Characterization, and Evaluation of Current-Voltage Characteristics. <i>Journal of the American Chemical Society</i> , 2012, 134, 6520-6523.	13.7	101
4	A Unique Nickel System having Versatile Catalytic Activity of Biological Significance. <i>Inorganic Chemistry</i> , 2010, 49, 3121-3129.	4.0	76
5	A new visible-light-excitable ICT-CHEF-mediated fluorescence "turn-on" probe for the selective detection of Cd ²⁺ in a mixed aqueous system with live-cell imaging. <i>Dalton Transactions</i> , 2015, 44, 5763-5770.	3.3	74
6	A novel coumarin based molecular switch for the sequential detection of Al ³⁺ and F ⁻ : Application in lung cancer live cell imaging and construction of logic gate. <i>Sensors and Actuators B: Chemical</i> , 2017, 242, 338-346.	7.8	74
7	Quinoline based reversible fluorescent "turn-on" chemosensor for the selective detection of Zn ²⁺ : Application in living cell imaging and as INHIBIT logic gate. <i>Sensors and Actuators B: Chemical</i> , 2015, 209, 138-146.	7.8	65
8	The Semiquinone-Ruthenium Combination as a Remarkably Invariant Feature in the Redox and Substitution Series [Ru(Q) _n](acac) _{3-n} (n = 1, 2, 3; m = 1, 0, +1, (+2); Q = 4,6-Di-tert-butyl-N-phenyl-o-iminobenzoquinone. <i>Inorganic Chemistry</i> , 2009, 48, 11853-11864.	4.0	61
9	Structural characterization of new Schiff bases of sulfamethoxazole and sulfathiazole, their antibacterial activity and docking computation with DHPS protein structure. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 150, 268-279.	3.9	60
10	A radical pathway in catecholase activity with nickel(II) complexes of phenol based "off-on" compartmental ligands. <i>Dalton Transactions</i> , 2014, 43, 841-852.	3.3	58
11	A novel 2,6-diformyl-4-methylphenol based chemosensor for Zn(II) ions by ratiometric displacement of Cd(II) ions and its application for cell imaging on human melanoma cancer cells. <i>Analyst</i> , The, 2014, 139, 495-504.	3.5	54
12	Coumarin based dual switching fluorescent "turn-on" chemosensor for selective detection of Zn ²⁺ and HSO ₄ ⁻ : an experimental and theoretical study. <i>RSC Advances</i> , 2014, 4, 25341-25347.	3.6	48
13	Sensitive Valence Structures of [(pap) ₂ Ru(Q)] ⁿ (n = +2, +1, 0, -1), Tj ETQq 1 1 0.784314 rgB 3,5-Di-tert-butyl-N-aryl-1,2-benzoquinonemonoimine and pap = 2-Phenylazopyridine. <i>Inorganic Chemistry</i> , 2009, 48, 9800-9810.	4.0	47
14	Redox Non-Innocence of Coordinated 2-Arylazo Pyridines in Iridium Complexes: Characterization of Redox Series and an Insight into Voltage-Induced Current Characteristics. <i>Chemistry - A European Journal</i> , 2014, 20, 6103-6111.	3.3	45
15	Reductive Approach to Mixed Valency (n = 1) in the Pyrazine Ligand-Bridged [(acac) ₂ Ru(1/4-L) ₂ Ru(acac) ₂] ⁿ (L = 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100). Tj ETQq 1 1 0.784314 rgB	4.0	43
16	Formation of bis(1/4-tetrazolato)dinickel(II) complexes with N,N,O-donor Schiff bases via in situ 1,3-dipolar cyclo-additions: isolation of a novel bi-cyclic trinuclear nickel(II)-sodium(II)-nickel(II) complex. <i>Dalton Transactions</i> , 2014, 43, 2936-2947.	3.3	41
17	Oxidation State Analysis of a Four-Component Redox Series [Os(pap) ₂ (Q)] ⁿ Involving Two Different Non-Innocent Ligands on a Redox-Active Transition Metal. <i>Inorganic Chemistry</i> , 2011, 50, 7090-7098.	4.0	37
18	Valence and spin situations in isomeric [(bpy)Ru(Qâ ²) ₂] ⁿ (Qâ ² =) Tj ETQq 0 0 rgBT /Overlock 10 Tf 50 67 Td (3,5-di-tert-butyl-N-aryl- <i>Transactions</i> , 2011, 40, 8377.	3.3	37

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19	Bis(acetylacetonato)ruthenium Complexes of Noninnocent 1,2- β -Dioxolene Ligands: Qualitatively Different Bonding in Relation to Monoimino and Diimino Analogues. <i>Chemistry - A European Journal</i> , 2011, 17, 11030-11040.	3.3	37
20	Al ³⁺ selective coumarin based reversible chemosensor: application in living cell imaging and as integrated molecular logic gate. <i>RSC Advances</i> , 2014, 4, 30666-30672.	3.6	36
21	Synthesis, structure, spectroscopic properties, electrochemistry, and DFT correlative studies of N-[(2-pyridyl)methylidene]-6-coumarin complexes of Cu(I) and Ag(I). <i>Polyhedron</i> , 2011, 30, 913-922.	2.2	35
22	A novel coumarin based molecular switch for dual sensing of Zn(II) and Cu(II). <i>RSC Advances</i> , 2015, 5, 7647-7653.	3.6	34
23	A new multi-analyte fluorogenic sensor for efficient detection of Al ³⁺ and Zn ²⁺ ions based on ESIPT and CHEF features. <i>New Journal of Chemistry</i> , 2018, 42, 19076-19082.	2.8	34
24	Structures, redox behavior, antibacterial activity and correlation with electronic structure of the complexes of nickel triad with 3-(2-(alkylthio)phenylazo)-2,4-pentanedione. <i>Inorganica Chimica Acta</i> , 2011, 370, 175-186.	2.4	33
25	Fluorescence sensing and intracellular imaging of Al ³⁺ ions by using naphthalene based sulfonamide chemosensor: structure, computation and biological studies. <i>RSC Advances</i> , 2015, 5, 73626-73638.	3.6	33
26	Correspondence of Ru ^{III} Ru ^{II} and Ru ^{IV} Ru ^{III} Mixed Valent States in a Small Dinuclear Complex. <i>Chemistry - A European Journal</i> , 2012, 18, 5667-5675.	3.3	29
27	1,4-Alkyl migration associated with simultaneous S-C bond cleavage and N-C bond formation in platinum complexes of 2-aminothioethers. Characterization of intramolecular interligand charge transfer phenomenon. <i>Dalton Transactions</i> , 2010, 39, 2717.	3.3	28
28	Examples of Reductive Azo Cleavage and Oxidative Azo Bond Formation on Re ₂ (CO) ₁₀ Template: Isolation and Characterization of Re(III) Complexes of New Azo-Aromatic Ligands. <i>Inorganic Chemistry</i> , 2011, 50, 7886-7893.	4.0	28
29	Azide bridged dicopper(II), dicobalt(II) complexes and a rare double μ_4 -chloride bridged ferromagnetic dicobalt(II) complex of a pyrazolyl-pyrimidine ligand: Synthesis, crystal structures, magnetic and DFT studies. <i>Polyhedron</i> , 2012, 38, 258-266.	2.2	28
30	Mono- and di-nuclear nickel(II) complexes derived from NNO donor ligands: syntheses, crystal structures and magnetic studies of dinuclear analogues. <i>RSC Advances</i> , 2016, 6, 36020-36030.	3.6	28
31	Redox-Rich Spin-Coupled Semiquinoneruthenium Dimers with Intense Near-IR Absorption. <i>Inorganic Chemistry</i> , 2011, 50, 4753-4763.	4.0	27
32	Ruthenium nitrosyl complexes with 1,4,7-trithiacyclononane and 2,2'-bipyridine (bpy) or 2-phenylazopyridine (pap) coligands. Electronic structure and reactivity aspects. <i>Dalton Transactions</i> , 2011, 40, 12527.	3.3	27
33	Lewis base controlled supramolecular architectures via non-covalent interactions of dioxomolybdenum(VI) complexes with an ONS donor ligand: DFT calculations and biological study. <i>New Journal of Chemistry</i> , 2015, 39, 2778-2794.	2.8	26
34	Carbazole-benzimidazole based dyes for acid responsive ratiometric emissive switches. <i>New Journal of Chemistry</i> , 2016, 40, 6907-6915.	2.8	26
35	Fabrication of a new fluorogenic probe for detection of phosgene in solution and vapor phase. <i>Sensors and Actuators B: Chemical</i> , 2021, 326, 128837.	7.8	25
36	An unusual (H ₂ O) ₂₀ discrete water cluster in the supramolecular host of a charge transfer platinum(II) complex: cytotoxicity and DNA cleavage activities. <i>Dalton Transactions</i> , 2010, 39, 9514.	3.3	24

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37	Carboxylate Tolerance of the Redox-Active Platform $[Ru(\hat{1}/4\text{-tppz})Ru]$, where tppz = 2,3,5,6-Tetrakis(2-pyridyl)pyrazine, in the Electron-Transfer Series $[(L)ClRu(\hat{1}/4\text{-tppz})RuCl(L)]$, $n = 2+, +, 0, \hat{a}^{\sim}, 2\hat{a}^{\sim}$, with 2-Picolinato, Quinaldato, and 8-Quinolincarboxylato Ligands (L). <i>Inorganic Chemistry</i> , 2010, 49, 6565-6574.	4.0	24
38	Benzimidazole based ratiometric and colourimetric chemosensor for Ni(II). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 153, 397-401.	3.9	24
39	Development of a new fluorescence ratiometric switch for endogenous hypochlorite detection in monocytes of diabetic subjects by dye release method. <i>Tetrahedron Letters</i> , 2018, 59, 1130-1135.	1.4	24
40	A new carbazole-benzothiazole based chemodosimeter for chromogenic and fluorogenic detection of $CN^{\hat{a}^{\sim}}$. <i>Journal of Luminescence</i> , 2018, 201, 419-426.	3.1	24
41	Ruthenium(II)-CO complexes of N-[(2-pyridyl)methylidene]- $\hat{1}\pm$ (or $\hat{1}^2$)-aminonaphthalene: Synthesis, spectral studies, crystal structure, redox properties and DFT calculation. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 4124-4133.	1.8	23
42	Alcohol oxidation reactions catalyzed by ruthenium-carbonyl complexes of thioaryazoimidazoles. <i>Applied Organometallic Chemistry</i> , 2014, 28, 641-651.	3.5	23
43	Imino-phenolic-azodye appended rhodamine as a primary fluorescence chemosensor for tin (Sn^{4+}) in solution and in RAW cells and the recognition of sulphide by $[AR^{\hat{a}^{\sim}}Sn]$. <i>RSC Advances</i> , 2014, 4, 36615-36622.	3.6	23
44	Ru(II)-halide-carbonyl complexes of naphthylazoimidazoles: Synthesis, spectra, electrochemistry, catalytic activity and electronic structure. <i>Journal of Organometallic Chemistry</i> , 2012, 716, 129-137.	1.8	22
45	Copper(II) complexes of thioaryazo-pentanedione: Structures, magnetism, redox properties and correlation with DFT calculations. <i>Polyhedron</i> , 2010, 29, 3147-3156.	2.2	21
46	$\{Ru^{\hat{a}^{\sim}}NO\}_6$ and $\{Ru^{\hat{a}^{\sim}}NO\}_7$ configurations in $[Ru(trpy)(tmp)(NO)]^{n+}$ ($trpy=2,2\hat{a}^{\sim}2:6\hat{a}^{\sim}2,2\hat{a}^{\sim}2\hat{a}^{\sim}2$ -terpyridine,) <i>Tj ETQq0 0 0 rgBT /Ov</i> <i>Inorganica Chimica Acta</i> , 2010, 363, 2945-2954.	2.4	20
47	Ruthenium(II) complexes of pyrrol-azo ligands: cytotoxicity, interaction with calf thymus DNA and bovine serum albumin. <i>Journal of Coordination Chemistry</i> , 2013, 66, 2747-2764.	2.2	20
48	Triphenylamine-benzimidazole based switch offers reliable detection of organophosphorus nerve agent (DCP) both in solution and gaseous state. <i>New Journal of Chemistry</i> , 2017, 41, 12562-12568.	2.8	20
49	Strong metal-metal coupling in mixed-valent intermediates $[Cl(L)Ru(\hat{1}/4\text{-tppz})Ru(L)Cl]^+$, $L = \hat{1}^2$ -diketonato ligands, tppz = 2,3,5,6-tetrakis(2-pyridyl)pyrazine. <i>Dalton Transactions</i> , 2012, 41, 13429.	3.3	19
50	Supramolecular frameworks of binuclear dioxomolybdenum($\langle scp \rangle vi \langle scp \rangle$) complexes with ONS donor ligands using 4,4-azopyridine as a pillar: crystal structure, DFT calculations and biological study. <i>New Journal of Chemistry</i> , 2015, 39, 8681-8694.	2.8	19
51	Binuclear dioxomolybdenum(VI) complexes of some tridentate ONS donor ligand containing $[MoO_2]^{2+}$ as the acceptor center: Synthesis, crystal structure, supramolecular architectures via hydrogen bonds, $\hat{I}\hat{e}\hat{I}$ stacking and DFT calculations. <i>Polyhedron</i> , 2015, 85, 196-207.	2.2	19
52	Dinuclear nickel(II) complexes with Schiff base ligands: syntheses, structures and bio-relevant catalytic activities. <i>Transition Metal Chemistry</i> , 2011, 36, 829-839.	1.4	18
53	Synthesis, spectra, structure, redox properties and DFT computation of copper(I)-triphenylphosphine-pyridyl Schiff bases. <i>Inorganica Chimica Acta</i> , 2012, 387, 240-247.	2.4	18
54	The synthesis, structure and photochromism of mercury(II)-iodide complexes of 1- C_nH_{2n+1} -2-(arylo)imidazoles ($n=4, 6, 8$). <i>Polyhedron</i> , 2012, 31, 506-514.	2.2	18

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55	Ruthenium carbonyl complexes of 3-(2-(methylthio)phenylazo)-4-hydroxy-3-penten-2-one: Synthesis, spectral characterization, electronic structure and catalytic activity. <i>Journal of Molecular Structure</i> , 2013, 1054-1055, 83-88.	3.6	18
56	Dimer formation by symbiotic donor-acceptor interaction between two molecules of a specially designed dioxomolybdenum(VI) complex containing both donor and acceptor centers - A structural, spectroscopic and DFT study. <i>Polyhedron</i> , 2013, 55, 192-200.	2.2	18
57	Detection and discrimination of Zn ²⁺ and Hg ²⁺ using a single molecular fluorescent probe. <i>New Journal of Chemistry</i> , 2018, 42, 8646-8652.	2.8	18
58	Facile detection of organophosphorus nerve agent mimic (DCP) through a new quinoline-based ratiometric switch. <i>New Journal of Chemistry</i> , 2019, 43, 8627-8633.	2.8	18
59	Synthesis, characterization, DFT calculations, protein binding and molecular docking studies of mononuclear dioxomolybdenum(VI) complexes with ONS donor ligand. <i>Journal of Molecular Structure</i> , 2021, 1234, 130192.	3.6	18
60	The intricate paramagnetic state of [Os(Q)2(bpy)] ⁺ , Q = 4,6-di-tert-butyl-o-aminobenzoquinone. <i>Dalton Transactions</i> , 2012, 41, 11675.	3.3	17
61	Synthesis, X-ray structure, spectroscopic and DFT study of cis-[Ru(PPh3)(L)X2] complexes (X=Cl ⁻ , Br ⁻), Tj ETQq1 1 0.784314 rgBT (O) 583-590.	2.4	17
62	Synthesis, crystal structure from PXRD of a Mn ^{II} (purp) ₂ complex, interaction with DNA at different temperatures and pH and lack of stimulated ROS formation by the complex. <i>RSC Advances</i> , 2016, 6, 51520-51532.	3.6	17
63	An ES IPT based chromogenic and fluorescent ratiometric probe for Zn ²⁺ with imaging in live cells and tissues. <i>New Journal of Chemistry</i> , 2019, 43, 1857-1863.	2.8	17
64	A selective fluorogenic chemosensor for visual detection of chemical warfare reagent mimic diethylchlorophosphate. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 388, 112188.	3.9	17
65	A new palladium(II) phosphino complex with ONS donor Schiff base ligand: Synthesis, characterization and catalytic activity towards Suzuki-Miyaura cross-coupling reaction. <i>Journal of Molecular Structure</i> , 2021, 1237, 130322.	3.6	17
66	Synthesis of Amphiphilic Azo-Anion-Radical Complexes of Chromium(III) and the Development of Ultrathin Redox-Active Surfaces by the Langmuir-Schaefer Technique. <i>Chemistry - A European Journal</i> , 2012, 18, 1761-1771.	3.3	16
67	Electronic structures and reactivity aspects of ruthenium-nitrosyls. <i>Inorganica Chimica Acta</i> , 2011, 372, 250-258.	2.4	15
68	Intercalated iodobismuthate in the layers of azoimidazoles. Structure, photochromism and DFT computation. <i>Polyhedron</i> , 2013, 54, 147-157.	2.2	15
69	Synthesis, crystal structure and DFT analysis of a phenoxo bridged Cu(II) complex and an azide and 1/3-O mixed bridged trinuclear Cu(II) complex. <i>Polyhedron</i> , 2013, 50, 51-58.	2.2	15
70	Copper(I)/silver(I)-phosphine-N-[(2-pyridyl)methylidene]-6-coumarin complexes: Syntheses, structures, redox interconversion, photophysical properties and DFT computation. <i>Polyhedron</i> , 2013, 51, 27-40.	2.2	15
71	Structure, fluorescence, redox properties and theoretical interpretation of heteroleptic copper(I) and silver(I) complexes of N-[(2-pyridyl)methylidene]-6-coumarin and triphenylphosphine. <i>Inorganica Chimica Acta</i> , 2014, 410, 202-213.	2.4	15
72	Palladium(II) complex with thiazole containing tridentate ONN donor ligand: Synthesis, X-ray structure and DFT computation. <i>Journal of Molecular Structure</i> , 2015, 1088, 28-33.	3.6	15

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73	Synthesis of palladium(II) complex with NNS donor Schiff base ligand via C S bond cleavage: X-ray structure, electrochemistry and DFT computation. <i>Journal of Molecular Structure</i> , 2017, 1142, 110-115.	3.6	15
74	Synthesis and characterization of a ruthenium complex with bis(diphenylphosphino)propane and thioether containing ONS donor ligand: Application in transfer hydrogenation of ketones. <i>Polyhedron</i> , 2017, 131, 1-7.	2.2	15
75	Isoelectronic Pt(II) and Au(III) N-heterocyclic carbene complexes: a structural and biological comparison. <i>New Journal of Chemistry</i> , 2018, 42, 10704-10711.	2.8	15
76	Palladium(II) and platinum(II) complexes of N-(2-pyridyl)methylidene-6-coumarin and N-(2-hydroxy)benzylidene-6-coumarin. <i>Inorganica Chimica Acta</i> , 2014, 423, 52-61.	2.4	14
77	Octahedral Mn(II) complex with new NNO donor Schiff base ligand: Synthesis, structure, photoluminescent behavior and computational studies. <i>Polyhedron</i> , 2014, 81, 66-73.	2.2	14
78	Structures, antimicrobial activity, DNA interaction and molecular docking studies of sulfamethoxazolyl-azo-acetylacetone and its nickel(II) complex. <i>Polyhedron</i> , 2015, 99, 77-86.	2.2	14
79	A copper(II) complex with a thioether and ether containing azophenol ligand: Synthesis, spectra, X-ray structure and DFT computations. <i>Polyhedron</i> , 2015, 102, 32-40.	2.2	14
80	Ruthenium carbonyl complex of a redox non-innocent ONS donor azophenol ligand: Electrochemistry, photophysical property, electronic structure and catalytic activity towards oxidation of alcohols. <i>Journal of Organometallic Chemistry</i> , 2017, 828, 1-9.	1.8	14
81	Structure, spectra and electrical conductivity of copper(I) and silver(I) phosphino bridging mixed ligand complexes with coumarinyl Schiff base. <i>Inorganica Chimica Acta</i> , 2018, 469, 523-535.	2.4	14
82	Ruthenium(III) complexes with tetradentate NSNO donor ligand: Synthesis, electronic structure, catalytic activity and DFT calculation. <i>Inorganica Chimica Acta</i> , 2014, 411, 106-112.	2.4	13
83	Rhodium(III)-triphenylphosphine complex with NNS donor thioether containing Schiff base ligand: Synthesis, spectra, electrochemistry and catalytic activity. <i>Journal of Molecular Structure</i> , 2015, 1099, 297-303.	3.6	13
84	Novel pyridyl based azo-derivative for the selective and colorimetric detection of nickel(II). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 159, 157-162.	3.9	13
85	A thioether containing reversible fluorescence turn-on chemosensor for selective detection of zinc(II): Applications in live cell imaging and inhibit logic gate. <i>Journal of Molecular Structure</i> , 2021, 1224, 129179.	3.6	13
86	Diastereomerism in tetranuclear copper(II) complexes of a phenol based compartmental ligand. <i>Inorganic Chemistry Communication</i> , 2012, 23, 113-116.	3.9	12
87	A Phenanthraquinone Based Fluorescent Probe for Sequential Detection of Cu ²⁺ and SO ₃ ²⁻ . <i>Journal of Fluorescence</i> , 2016, 26, 2113-2118.	2.5	12
88	Osmium-hydride-carbonyl complex with thioether containing Schiff base ligand: Synthesis, crystal structure, electrochemistry and catalytic transfer hydrogenation. <i>Journal of Organometallic Chemistry</i> , 2017, 846, 201-207.	1.8	12
89	Probing valence and spin situations in selective ruthenium iminoquinonoid frameworks. An experimental and DFT analysis. <i>Inorganica Chimica Acta</i> , 2011, 374, 216-225.	2.4	11
90	Rhenium(I) complexes with NNS donor thioarylaazoimidazole ligands with the cis-[Re(CO) ₂] ⁺ core: Synthesis, characterization, electrochemical study and DFT calculation. <i>Journal of Molecular Structure</i> , 2013, 1047, 73-79.	3.6	11

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91	fac-Tricarbonyl rhenium(I) complexes of 2-(alkylthio)-N-((pyridine-2-yl)methylene)benzenamine: Synthesis, spectroscopic characterization, X-ray structure and DFT calculation. <i>Inorganica Chimica Acta</i> , 2013, 399, 138-145.	2.4	11
92	Synthesis, characterization, crystal structure and density functional theory (DFT) calculations of dioxomolybdenum (VI) complexes of an ONS donor ligand derived from benzoylacetone and S-benzyl dithiocarbazate. <i>Polyhedron</i> , 2013, 50, 602-611.	2.2	11
93	An Efficient Fluorescence "Turn-On" Chemosensor Comprising of Coumarin and Rhodamine Moieties for Al ³⁺ and Hg ²⁺ . <i>Journal of Fluorescence</i> , 2017, 27, 2051-2057.	2.5	11
94	Palladium(II) complexes with thioether containing azophenol ligands: Synthesis, characterization, X-ray structure and DNA binding study. <i>Polyhedron</i> , 2018, 150, 118-125.	2.2	11
95	Novel tetranuclear Ni(II) Schiff base complex containing Ni ₄ O ₄ cubane core: Synthesis, X-ray structure, spectra and magnetic properties. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 133, 714-719.	3.9	10
96	Comparative Study on <i>ortho</i> -C-H vs <i>ortho</i> -C-X (X = C, Cl, S) Bond Activation in <i>ortho</i> -C-aromatic-N Bond Fusion in Substituted Anilines Using Ruthenium(II) Mediators: Isolation and Characterization of Unusual Ru ₂ Complexes. <i>Organometallics</i> , 2012, 31, 5282-5293.	2.3	9
97	Re(I) carbonyl complexes of N-[(2-pyridyl)methylidene]-1,8- (or 1 ²)-aminonaphthalene: Synthesis, structure, electrochemistry and DFT analysis. <i>Journal of Molecular Structure</i> , 2012, 1017, 19-25.	3.6	9
98	Rhenium(I) carbonyl complexes with redox non-innocent 1-alkyl-2-((o-thioalkyl)phenylazo)imidazole ligands: An experimental and theoretical studies. <i>Polyhedron</i> , 2012, 40, 46-52.	2.2	9
99	Lead(II) complexes of 1-alkyl-2-(arylazo)imidazole: Synthesis, structure, photochromism and metallomesogenic properties. <i>Polyhedron</i> , 2016, 117, 318-326.	2.2	9
100	Two New Quinoline-Benzothiazole Blended "Off-On" Type Fluorescent Probes Exclusively Detect Cd ²⁺ . <i>ChemistrySelect</i> , 2019, 4, 8068-8073.	1.5	9
101	A simple coumarin based fluorescent probe for the selective detection of Al ³⁺ along with its application in live cell imaging via AGS cell line. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 390, 112294.	3.9	9
102	Synthesis, characterization, X-ray structure and DNA binding study of palladium(II) complex with new thioether containing ONS donor ligand. <i>Journal of Chemical Sciences</i> , 2020, 132, 1.	1.5	9
103	Copper(I) and Silver(I) Complexes of 1-alkyl-2-(methyl)-4-(arylazo)imidazole. Synthesis, Spectral Studies and Electrochemistry. <i>Transition Metal Chemistry</i> , 2006, 31, 293-298.	1.4	8
104	Structure, spectra and electrochemistry of ruthenium-carbonyl complexes of naphthylazoimidazole. <i>Inorganica Chimica Acta</i> , 2008, 361, 2431-2438.	2.4	8
105	Cu(II) complexes of a new tetradentate N ₂ SO donor: synthesis, structure, electrochemistry, and DFT computation. <i>Journal of Coordination Chemistry</i> , 2013, 66, 4067-4079.	2.2	8
106	Synthesis, structure, photochromism, mesogenic property and DFT computations of silver(I) complexes of long chain alkyl group containing 1-alkyl-2-(arylazo)imidazoles. <i>Polyhedron</i> , 2014, 79, 186-196.	2.2	8
107	Palladium(II)-iodo-{1-alkyl-2-(arylazo)imidazole} complexes: Synthesis, structure, dynamics of photochromism and DFT computation. <i>Polyhedron</i> , 2015, 85, 900-911.	2.2	8
108	Human peripheral blood mononuclear cells targeted multidimensional switch for selective detection of HSO ₃ ⁻ anion. <i>Dyes and Pigments</i> , 2022, 198, 109966.	3.7	8

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109	Synthesis, crystal structure and spectral properties of 2-[(1-Methyl-2-benzimidazolyl)azo]-p-cresol: An experimental and theoretical study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 115, 421-425.	3.9	7
110	Structure, photophysics, electrochemistry and DFT calculations of [RuH(CO)(PPh ₃) ₂ (coumarinyl-azo-imidazole)]. <i>Polyhedron</i> , 2013, 53, 193-201.	2.2	7
111	1-alkylthioalkylphenylazoimidazole Complexes of Pb ^{II} and Their Photochromic Property. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2013, 639, 1861-1870.	1.2	7
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