Thangarasu Pandiyan

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Simultaneous and sensitive determination of ascorbic acid, dopamine, uric acid, and tryptophan with silver nanoparticles-decorated reduced graphene oxide modified electrode. Colloids and Surfaces B: Biointerfaces, 2013, 111, 97-106.	5.0	253
2	Development of a predictive model for corrosion inhibition of carbon steel by imidazole and benzimidazole derivatives. Corrosion Science, 2016, 108, 23-35.	6.6	177
3	DFT and electrochemical studies of tris(benzimidazole-2-ylmethyl)amine as an efficient corrosion inhibitor for carbon steel surface. Corrosion Science, 2008, 50, 614-624.	6.6	166
4	A new inhibitor for mild carbon steel: Electrochemical and DFT studies. Journal of Electroanalytical Chemistry, 2005, 583, 8-16.	3.8	135
5	Comparison of methods for the photochemical degradation of chlorophenols. Journal of Photochemistry and Photobiology A: Chemistry, 2002, 146, 149-155.	3.9	112
6	Density Functional Theory and Electrochemical Studies: Structure–Efficiency Relationship on Corrosion Inhibition. Journal of Chemical Information and Modeling, 2015, 55, 2391-2402.	5.4	53
7	Benzimidazole ligands in the corrosion inhibition for carbon steel in acid medium: DFT study of its interaction on Fe30 surface. Journal of Molecular Structure, 2016, 1119, 314-324.	3.6	53
8	Three novel input logic gates supported by fluorescence studies: Organic nanoparticles (ONPs) as chemo-sensor for detection of Zn2+ and Al3+ in aqueous medium. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 146, 142-150.	3.9	48
9	The influence of iodide in corrosion inhibition by organic compounds on carbon steel: Theoretical and experimental studies. Applied Surface Science, 2020, 514, 145928.	6.1	47
10	Tetracycline and its quantum dots for recognition of Al3+ and application in milk developing cells bio-imaging. Food Chemistry, 2019, 278, 523-532.	8.2	46
11	The Photochemical Degradation of Bacterial Cell Wall Using Penicillin-Based Carbon Dots: Weapons Against Multi-Drug Resistant (MDR) Strains. ChemistrySelect, 2017, 2, 9277-9283.	1.5	43
12	Ciprofloxacin as chemosensor for simultaneous recognition of Al3+ and Cu2+ by Logic Gates supported fluorescence: Application to bio-imaging for living cells. Sensors and Actuators B: Chemical, 2017, 248, 447-459.	7.8	40
13	Visible light driven photo-degradation of Congo red by TiO2ZnO/Ag: DFT approach on synergetic effect on band gap energy. Chemosphere, 2018, 213, 481-497.	8.2	39
14	Surface decoration of ZnO nanoparticles: A new strategy to fine tune the recognition properties of imine linked receptor. Sensors and Actuators B: Chemical, 2012, 166-167, 467-472.	7.8	34
15	Fluorescent organic nanoparticles (FONs) for the selective recognition of Zn 2+ : Applications to multi-vitamin formulations in aqueous medium. Sensors and Actuators B: Chemical, 2016, 223, 59-67.	7.8	33
16	Fluorescent organic nanoparticles (FONs) for selective recognition of Al ³⁺ : application to bio-imaging for bacterial sample. RSC Advances, 2016, 6, 37944-37952.	3.6	32
17	Tuning of the magnetic response in cobalt ferrite CoxFe3-xO4 by varying the Fe2+ to Co2+ molar ratios: Rietveld refinement and DFT structural analysis. Journal of Alloys and Compounds, 2017, 695, 2706-2716.	5.5	32
18	Simultaneous recognition of cysteine and cytosine using thiophene-based organic nanoparticles decorated with Au NPs and bio-imaging of cells. Photochemical and Photobiological Sciences, 2019, 18, 1761-1772	2.9	32

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19	Dissolution rates of jarosite-type compounds in H2SO4 medium: A kinetic analysis and its importance on the recovery of metal values from hydrometallurgical wastes. Hydrometallurgy, 2017, 167, 16-29.	4.3	31
20	DFT studies of α-diimines adsorption over Fen surface (n=1, 4, 9 and 14) as a model for metal surface coating. Chemical Physics Letters, 2010, 485, 142-151.	2.6	30
21	Structure, spectra and redox behaviour of copper(II) complexes of bis(benzimidazolyl)diamine ligands. Journal of the Chemical Society Dalton Transactions, 1992, , 3377.	1.1	29
22	Synergistic Antibacterial Activity of Nanohybrid Materials ZnO–Ag and ZnO–Au: Synthesis, Characterization, and Comparative Analysis of Undoped and Doped ZnO Nanoparticles. Australian Journal of Chemistry, 2015, 68, 288.	0.9	28
23	Determination of the dissolution rate of hazardous jarosites in different conditions using the shrinking core kinetic model. Journal of Hazardous Materials, 2020, 386, 121664.	12.4	28
24	Kinetics and mechanism for the oxidation of anilines by ClO ₂ : a combined experimental and computational study. Journal of Physical Organic Chemistry, 2014, 27, 440-449.	1.9	25
25	Crystal phase induced band gap energy enhancing the photo-catalytic properties of Zn–Fe ₂ O ₄ /Au NPs: experimental and theoretical studies. Catalysis Science and Technology, 2019, 9, 3066-3080.	4.1	25
26	Pyridyl- and benzimidazole-based ruthenium(iii) complex for selective chloride recognition through fluorescence spectroscopy. Analytical Methods, 2013, 5, 3880.	2.7	24
27	Novel insight of indium(III)complex of N, NÂʿ-bis(salicylidene)ethylenediamine as chemo-sensor for selective recognition of HSO4â՞' and hemolytic toxicity (Red Blood Cells) studies: Experimental and theoretical studies. Sensors and Actuators B: Chemical, 2019, 293, 357-365.	7.8	24
28	Kinetic modeling and experimental design of the sodium arsenojarosite decomposition in alkaline media: Implications. Hydrometallurgy, 2013, 137, 115-125.	4.3	23
29	Imine-linked chemosensors for the detection of Zn2+ in biological samples. RSC Advances, 2014, 4, 9784.	3.6	23
30	Crystal plane directed interaction of TiO2 [1Â0Â1] with AgNPs [1Â1 1] silver nanoparticles enhancing solar light induced photo-catalytic oxidation of ciprofloxacin: Experimental and theoretical studies. Chemical Engineering Journal, 2020, 394, 124286.	12.7	22
31	A ruthenium(<scp>iii</scp>) complex derived from N,N′-bis(salicylidene)ethylenediamine as a chemosensor for the selective recognition of acetate and its interaction with cells for bio-imaging: experimental and theoretical studies. New Journal of Chemistry, 2017, 41, 10815-10827.	2.8	21
32	DFT analysis: Fe4 cluster and Fe(110) surface interaction studies with pyrrole, furan, thiophene, and selenophene molecules. Structural Chemistry, 2014, 25, 115-126.	2.0	20
33	Exploration of ruthenium complex of (E)-2-((pyridine-2-yl)methyleneamino) benzoic acid as chemosensor for simultaneous recognition of acetate and HSO4â^' ions in cell bio-imaging: Experimental and theoretical studies. Sensors and Actuators B: Chemical, 2018, 270, 570-581.	7.8	20
34	Subtle C–H···Hal (Hal = Cl, Br) Bonding as Predominant Synthon in the Assembly of Supramolecular Architectures Based on Luminescent Tin(IV) Complexes. Crystallography, Hirshfeld Surfaces, DFT Calculations, and Fluorescence. Crystal Growth and Design, 2014, 14, 3742-3757.	3.0	19
35	Cu nanoparticles supported mesoporous polyaniline and its applications towards non-enzymatic sensing of glucose and electrocatalytic oxidation of methanol. Journal of Polymer Research, 2013, 20, 1.	2.4	18
36	A study on the dissolution rates of K-Cr(VI)-jarosites: kinetic analysis and implications. Geochemical Transactions, 2016, 17, 3.	0.7	18

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37	DFT and Experimental Studies of Perchlorate Ion Coordination in <i>cis</i> / <i>trans</i> opper(II) Complexes of Tetradentate Pyridyl Ligands. European Journal of Inorganic Chemistry, 2008, 2008, 3274-3285.	2.0	17
38	Organic-Inorganic Hybrid Nanoparticles for Bacterial Inhibition: Synthesis and Characterization of Doped and Undoped ONPs with Ag/Au NPs. Molecules, 2015, 20, 6002-6021.	3.8	16
39	Electrochemical and theoretical studies of the interactions of a pyridyl-based corrosion inhibitor with iron clusters (Fe15, Fe30, Fe45, and Fe60). Journal of Molecular Modeling, 2017, 23, 342.	1.8	16
40	Mercaptoethanesulfonic acid (CoM imitator) interaction studies with nickel(II) complexes of pyridyl groups containing tetradentate ligands: Synthesis, structure, spectra and redox properties. Inorganica Chimica Acta, 2006, 359, 1-12.	2.4	13
41	Synthesis of imidazole-based NHC–Au(I) complexes and their application in non-enzymatic glucose sensing. Journal of Applied Electrochemistry, 2013, 43, 939-951.	2.9	13
42	Voltammetric Simultaneous Determination of Cu ²⁺ , Cd ²⁺ and Pb ²⁺ in Full Aqueous Medium Using Organic Nanoparticles of Disulfide Based Receptor. Electroanalysis, 2015, 27, 2544-2551.	2.9	13
43	The role of keto group in cyclic ligand 1,4,8,11-tetraazacyclotetradecane-5,7-dione as strong corrosion inhibitor for carbon steel surface: Experimental and theoretical studies. Journal of Molecular Structure, 2019, 1189, 131-145.	3.6	13
44	structure, spectra and redox behavior of pink-[Co(bbes)2](ClO4)2 and blue-[Co(bbes)2](ClO4)2. Inorganica Chimica Acta, 2004, 357, 2570-2578.	2.4	12
45	Fluorescent organic nanoparticles (FONs) of imine-linked peptide for the detection of Cr3+ in aqueous medium. Sensors and Actuators B: Chemical, 2015, 206, 90-97.	7.8	12
46	Why ionic liquids coated ZnO nanocomposites emerging as environmental remediates: Enhanced photo-oxidation of 4-nitroaniline and encouraged antibacterial behavior. Journal of Molecular Liquids, 2020, 319, 114107.	4.9	12
47	Synthesis, molecular structure and spectral analysis: DFT–TDDFT computational study of ruthenium complex of tetradentate N,N′-bis(benzimidazole-2yl-ethyl)-ethylenediamine. Journal of Molecular Structure, 2011, 989, 70-79.	3.6	11
48	How porous periodicity of mesoporous materials like TiO2-SBA-15-10 encourages photocatalytic degradation of rhodamine B: a comparative study with aperiodic TiO2-SiO2-aerogel-10. Journal of Nanoparticle Research, 2021, 23, 1.	1.9	11
49	Mercaptoethanesulfonic acid studies with nickel(II) complexes of tetra- and hexadentate ligands containing pyridyl groups: synthesis, structure, spectra and redox behavior. Inorganica Chimica Acta, 2003, 343, 79-89.	2.4	10
50	Spectroscopic determination of poly-aromatic compounds in petroleum contaminated soils. Water, Air, and Soil Pollution, 2004, 158, 137-151.	2.4	10
51	Fe n Clusters (nÂ=Â2–7) Interaction with Furan Ring: DFT Studies over Iron Surface Suitability for Furan Adsorption. Journal of Cluster Science, 2011, 22, 459-471.	3.3	10
52	Corrosion inhibition studies of cigarette waste on the iron surface in acid medium: electrochemical and surface morphology analysis. Anti-Corrosion Methods and Materials, 2016, 63, 245-255.	1.5	10
53	ZnO–Fe3O4–Au Hybrid Composites for Thioanisole Oxidation Under Visible Light: Experimental and Theoretical Studies. Journal of Cluster Science, 2017, 28, 1897-1922.	3.3	10
54	Structural influence in the interaction of cysteine with five coordinated copper complexes: Theoretical and experimental studies. Journal of Molecular Structure, 2018, 1157, 660-671.	3.6	10

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55	Mechanosynthesis of Photochromic Oligophenyleneimines: Optical, Electrochemical and Theoretical Studies. Molecules, 2019, 24, 849.	3.8	9
56	Understanding of benzimidazole based ionic liquid as an efficient corrosion inhibitor for carbon steel: Experimental and theoretical studies. Journal of Molecular Liquids, 2022, 358, 119204.	4.9	9
57	Ruthenium(II) complexes containing benzimidazolic tripodal ligands. Inorganica Chimica Acta, 2015, 431, 258-265.	2.4	8
58	A new computational model for the prediction of toxicity of phosphonate derivatives using QSPR. Molecular Diversity, 2018, 22, 269-280.	3.9	8
59	Photochemical and antibacterial properties of ruthenium complex of N,N'-bis(benzimidazole-2yl-ethyl)ethylenediamine under visible light: Experimental and theoretical studies. Journal of Molecular Structure, 2020, 1203, 127377.	3.6	8
60	Synthesis, structure, spectra and redox chemistry of mono- and dinuclear copper(II) complexes containing pyridyl groups. Journal of Coordination Chemistry, 2005, 58, 1087-1098.	2.2	7
61	Understanding of [RuL(ONO)]n+ acting as nitric oxide precursor, a theoretical study of ruthenium complexes of 1,4,8,11-tetraazacyclo- tetradecane having different substituents: How spin multiplicity influences bond angle and bond lengths (Ru-O-NO) in releasing of NO. Journal of Inorganic Biochemistry. 2021. 218. 111406.	3.5	7
62	Ruthenium complex of bis(benzimidazole-yl-ethyl)sulfide as chemo-sensor for selective recognition of chloride ion, and its application in real bacterial samples. Inorganica Chimica Acta, 2021, 522, 120354.	2.4	7
63	Rapid electrochemical recognition of trimethoprim in human urine samples using new modified electrodes (CPE/Ag/Au NPs) analysing tunable electrode properties: experimental and theoretical studies. Analyst, The, 2021, 146, 7653-7669.	3.5	6
64	Nanomolar Detection of Iodide in Aqueous Medium Using Organic–Inorganic Hybrid Nanoparticles: Application in Urine Analysis. ChemPlusChem, 2015, 80, 665-672.	2.8	5
65	Selective recognition of Cr3+ in multivitamin formulations in aqueous medium by fluorescent organic–inorganic nanohybrids. Research on Chemical Intermediates, 2018, 44, 3179-3197.	2.7	5
66	Photochemical oxidation of chlorinated phenols in comparison with electro-oxidation. Toxicological and Environmental Chemistry, 2006, 88, 23-33.	1.2	4
67	Nanohybrid Chemosensor for the Simultaneous Detection of Fluoride and Iodide in Aqueous System and Its Utility in Real Samples. Electroanalysis, 2015, 27, 534-543.	2.9	4
68	Surface-decorated CdS nanoparticles for the recognition of K+ in aqueous medium: DFT and antibacterial studies. Research on Chemical Intermediates, 2018, 44, 155-171.	2.7	4
69	Activation of Pt–O and Pt–H bonds: DFT studies on adsorption of [Gd(H2O)n]3+ (n=8–9) with Ptn (n=3–7) cluster. Computational and Theoretical Chemistry, 2014, 1047, 47-54.	2.5	3
70	Synthesis of Photochromic Oligophenylenimines: Optical and Computational Studies. Molecules, 2015, 20, 5440-5455.	3.8	3
71	Theoretical and experimental studies of phenol oxidation by ruthenium complex with N,N,N-tris(benzimidazol-2yl-methyl)amine. Journal of Molecular Modeling, 2015, 21, 224.	1.8	3
72	A critical evaluation of [ML(ONO)]+ (MÂ=ÂFe, Ru, Os) as nitric oxide precursor influenced by spin multiplicity and geometrical parameters (M-O-NO and MO-N-O) for the NO release: A theoretical study. Inorganica Chimica Acta, 2021, 527, 120584.	2.4	2

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73	Phenol oxidation through its adduct formation with chromium complex of 1,4,8,11-tetrakis(2-pyridylmethyl)-1,4,8,11-tetraazacyclotetradecane: A theoretical study. Journal of Molecular Structure, 2017, 1133, 111-121.	3.6	0