

Umesh Fegade

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Effective adsorption of Fuchsin dye on FeZnOAC: kinetic, isotherm, double-layer modelling and reusability study. <i>International Journal of Environmental Analytical Chemistry</i> , 2023, 103, 3954-3970.	1.8	6
2	Double-layer modelling and physicochemical parameters interpretation for chromium adsorption on ZnMnOAC nanocomposite. <i>Inorganic and Nano-Metal Chemistry</i> , 2023, 53, 228-238.	0.9	3
3	Adsorption of Cr(VI) on Ultrafine Al ₂ O ₃ -doped MnFe ₂ O ₄ nanocomposite surface: Experimental and theoretical study using double-layer modeling. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 163, 110544.	1.9	10
4	Efficient Cr(VI) and phosphate removal from contaminated water using MnTiFeO nanoflakes: Statistical modeling and interpretation. <i>Journal of Physics and Chemistry of Solids</i> , 2022, 167, 110715.	1.9	2
5	Recent development of aqueous zinc-ion battery cathodes and future challenges: Review. <i>International Journal of Energy Research</i> , 2022, 46, 13152-13177.	2.2	17
6	Adsorption of Congo Red dye on CuO nanoparticles synthesized by green method using <i>Nyctanthes arbor-tristis</i> leaf extract: Experimental and theoretical study. <i>International Journal of Chemical Kinetics</i> , 2022, 54, 513-522.	1.0	7
7	Advances and applications. <i>Interface Science and Technology</i> , 2021, 33, 557-586.	1.6	4
8	Application of biosurfactant for treatment of effluent waste, polluted wastewater treatment, and sewage sludge. , 2021, , 1-19.		1
9	A Selective Ratiometric Receptor 2-((E)-(3-(prop-1-en-2-yl)phenylimino)methyl)-4-nitrophenol for the Detection of Cu ²⁺ Ions Supported By DFT Studies. <i>Journal of Fluorescence</i> , 2021, 31, 625-634.	1.3	4
10	Adsorption of Congo Red on Pb doped Fe ₃ O ₄ : experimental study and theoretical modeling via double-layer statistical physics models. <i>Water Science and Technology</i> , 2021, 83, 1714-1727.	1.2	10
11	Statistical modeling and interpretation of Sono-assisted adsorption mechanism of Crystal Violet dye on FeTiPbO Nanocomposite. <i>Journal of Molecular Liquids</i> , 2021, 340, 116878.	2.3	7
12	Spinel oxide incorporated photoanode for better power conversion efficiency in dye-sensitized solar cells. <i>Optik</i> , 2021, 247, 167976.	1.4	8
13	A Mini Review on Organic Chemosensors for Cation Recognition (2013-19). <i>Journal of Fluorescence</i> , 2020, 30, 1295-1330.	1.3	39
14	Multifunctional Zn _{0.3} Al _{0.4} O _{4.5} crystals: An efficient photocatalyst for formaldehyde degradation and EBT adsorption. <i>Arabian Journal of Chemistry</i> , 2020, 13, 8262-8270.	2.3	30
15	Conversion of Carbon Dioxide into Formic Acid. <i>Environmental Chemistry for A Sustainable World</i> , 2020, , 91-110.	0.3	3
16	Toxic Gas Sensors and Biosensors. <i>Nanotechnology in the Life Sciences</i> , 2020, , 49-67.	0.4	1
17	Exploration of the adsorption capability by doping Pb@ZnFe ₂ O ₄ nanocomposites (NCs) for decontamination of dye from textile wastewater. <i>Heliyon</i> , 2019, 5, e02412.	1.4	40
18	Phosphate removal, mechanism, and adsorption properties of Fe-Mn-Zn oxide trimetal alloy nanocomposite fabricated via co-precipitation method. <i>Separation Science and Technology</i> , 2019, 54, 2682-2694.	1.3	21

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19	Dye Pollutants removal from Waste water using Metal Oxide Nanoparticle embedded Activated Carbon: An Immobilization study. Journal of Dispersion Science and Technology, 2019, 40, 563-573.	1.3	31
20	An multifunction Zn _{0.3} Mn _{0.4} O ₄ nanospheres for carbon dioxide reduction to methane via photocatalysis and reused after five cycles for phosphate adsorption. Journal of Environmental Chemical Engineering, 2018, 6, 1918-1925.	3.3	28
21	Design and synthesis of Zn _{0.3} Fe _{0.45} O ₃ nanoparticle for efficient removal of Congo red dye and its kinetic and isotherm investigation. International Journal of Industrial Chemistry, 2018, 9, 85-97.	3.1	26
22	Experimental investigation on phosphate adsorption, mechanism and desorption properties of Mn-Zn-Ti oxide trimetal alloy nanocomposite. Journal of Dispersion Science and Technology, 2018, 39, 1635-1643.	1.3	26
23	Facile synthesis of Lead Doped Zinc-Aluminum Oxide Nanoparticles (LD-ZAO-NPs) for efficient adsorption of anionic dye: Kinetic, isotherm and thermodynamic behaviors. Journal of Industrial and Engineering Chemistry, 2017, 53, 294-306.	2.9	41
24	Pyrrole-coupled salicylimine-based fluorescence turn-on-probe for highly selective recognition of Zn ²⁺ ions in mixed aqueous media: Application in living cell imaging. Journal of Molecular Recognition, 2015, 28, 369-375.	1.1	17
25	A novel chromogenic and fluorogenic chemosensor for detection of trace water in methanol. Sensors and Actuators B: Chemical, 2015, 210, 324-327.	4.0	36
26	Fluorescence Chemosensor for HSO ₄ ⁻ Ion Based on Pyrrole-Substituted Salicylimine Zn ²⁺ Complex: Nanomolar Detection. Journal of Fluorescence, 2015, 25, 819-824.	1.3	8
27	Highly sensitive and selective determination of Hg ²⁺ by using 3-((2-(1H-benzo[d]imidazol-2-yl)phenylimino)methyl)benzene-1,2-diol as fluorescent chemosensor and its application in real water sample. Supramolecular Chemistry, 2015, 27, 527-532.	1.5	17
28	2-((E)-(2-aminophenylimino)methyl)-6-isopropyl-3-methylphenol based fluorescent receptor for dual Ni ²⁺ and Cu ²⁺ recognition: Nanomolar detection. Polyhedron, 2015, 87, 79-85.	1.0	15
29	A novel phthalazine based highly selective chromogenic and fluorogenic chemosensor for Co ²⁺ in semi-aqueous medium: application in cancer cell imaging. Photochemical and Photobiological Sciences, 2015, 14, 439-443.	1.6	26
30	An amide based dipodal Zn ²⁺ complex for multications recognition: Nanomolar detection. Journal of Luminescence, 2014, 149, 190-195.	1.5	26
31	A selective fluorescent receptor for the determination of nickel (II) in semi-aqueous media. Journal of Luminescence, 2014, 146, 234-238.	1.5	30
32	Turn-on fluorescent dipodal chemosensor for nano-molar detection of Zn ²⁺ : Application in living cells imaging. Talanta, 2014, 125, 418-424.	2.9	33
33	Urea Based Dipodal Fluorescence Receptor for Sensing of Fe ³⁺ Ion in Semi-Aqueous Medium. Journal of Fluorescence, 2014, 24, 27-37.	1.3	23
34	Fluorescent and Chromogenic Receptor Bearing Amine and Hydroxyl Functionality for Iron (III) Detection in Aqueous Solution. Journal of Fluorescence, 2014, 24, 675-681.	1.3	23
35	Highly Sensitive Ratiometric Chemosensor for Selective Naked Eye Nanomolar Detection of Co ²⁺ in Semi-Aqueous Media. ChemPhysChem, 2014, 15, 2230-2235.	1.0	31
36	A selective and discriminating noncyclic receptor for HSO ₄ ⁻ ion recognition. RSC Advances, 2014, 4, 15288.	1.7	44

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37	2,2â€²-(Hydrazine-1,2-diylidenedimethylidene)bis(6-isopropyl-3-methylphenol) based selective dual-channel chemosensor for Cu ²⁺ in semi-aqueous media. RSC Advances, 2014, 4, 39639-39644.	1.7	33
38	Al ³⁺ -selective colorimetric and fluorescent red shifting chemosensor: application in living cell imaging. Dalton Transactions, 2014, 43, 2895-2899.	1.6	51
39	Colorimetric and fluorescent chemosensor for Cu ²⁺ in semi-aqueous medium. Sensors and Actuators B: Chemical, 2014, 202, 924-928.	4.0	35
40	Highly selective and sensitive receptor for Fe ³⁺ probing. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 121, 569-574.	2.0	33
41	An amide based dipodal Zn ²⁺ complex: nano-molar detection of HSO ₄ ²⁻ in a semi-aqueous system. Organic and Biomolecular Chemistry, 2013, 11, 6824.	1.5	33
42	Fluorescent recognition of Fe ³⁺ ion with photoinduced electron transfer (PET) sensor. Chemical Physics Letters, 2013, 584, 165-171.	1.2	38
43	Statistical Physics Model of EBT Adsorption on Pb(II) doped Zinc Oxide Nanoparticles: Kinetics, Isotherm and Reuse Study. International Journal of Environmental Analytical Chemistry, 0, , 1-15.	1.8	7
44	Nâ€²-(4-(diethylamino)-2-hydroxybenzylidene) isonicotinohydrazide based chemosensor for nanomolar detection of Ni(II) ion. International Journal of Environmental Analytical Chemistry, 0, , 1-17.	1.8	3
45	Experimental and statistical investigation of adsorption mechanism of toxic chromium on Al-Fe-Zn oxide nanocomposite and successful application on industrial wastewater. International Journal of Environmental Analytical Chemistry, 0, , 1-15.	1.8	6