

# Umesh Fegade

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/3640570/umesh-fegade-publications-by-year.pdf>

**Version:** 2024-04-17

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45  
papers

681  
citations

19  
h-index

25  
g-index

46  
ext. papers

799  
ext. citations

3.3  
avg, IF

4.15  
L-index

#	Paper	IF	Citations
45	Adsorption of Cr(VI) on Ultrafine Al <sub>2</sub> O <sub>3</sub> -doped MnFe <sub>2</sub> O <sub>4</sub> nanocomposite surface: Experimental and theoretical study using double-layer modeling. <i>Journal of Physics and Chemistry of Solids</i> , <b>2022</b> , 163, 110544	3.9	1
44	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> , <b>2022</b> , 110715	3.9	1
43	Advances and applications. <i>Interface Science and Technology</i> , <b>2021</b> , 33, 557-586	2.3	0
42	Application of biosurfactant for treatment of effluent waste, polluted wastewater treatment, and sewage sludge <b>2021</b> , 1-19		
41	A Selective Ratiometric Receptor 2-((E)-(3-(prop-1-en-2-yl)phenylimino)methyl)-4-nitrophenol for the Detection of Cu ions Supported By DFT Studies. <i>Journal of Fluorescence</i> , <b>2021</b> , 31, 625-634	2.4	1
40	Adsorption of Congo Red on Pb doped FeO: experimental study and theoretical modeling via double-layer statistical physics models. <i>Water Science and Technology</i> , <b>2021</b> , 83, 1714-1727	2.2	4
39	Tandem Solar Cell <b>2021</b> , 83-102		0
38	Statistical modeling and interpretation of Sono-assisted adsorption mechanism of Crystal Violet dye on FeTiPbO Nanocomposite. <i>Journal of Molecular Liquids</i> , <b>2021</b> , 340, 116878	6	1
37	Spinel oxide incorporated photoanode for better power conversion efficiency in dye-sensitized solar cells. <i>Optik</i> , <b>2021</b> , 247, 167976	2.5	3
36	Multifunctional Zn <sub>0.3</sub> Al <sub>0.4</sub> O <sub>4.5</sub> crystals: An efficient photocatalyst for formaldehyde degradation and EBT adsorption. <i>Arabian Journal of Chemistry</i> , <b>2020</b> , 13, 8262-8270	5.9	17
35	Toxic Gas Sensors and Biosensors. <i>Nanotechnology in the Life Sciences</i> , <b>2020</b> , 49-67	1.1	0
34	Conversion of Carbon Dioxide into Formic Acid. <i>Environmental Chemistry for A Sustainable World</i> , <b>2020</b> , 91-110	0.8	1
33	A Mini Review on Organic Chemosensors for Cation Recognition (2013-19). <i>Journal of Fluorescence</i> , <b>2020</b> , 30, 1295-1330	2.4	18
32	Exploration of the adsorption capability by doping Pb@ZnFeO nanocomposites (NCs) for decontamination of dye from textile wastewater. <i>Heliyon</i> , <b>2019</b> , 5, e02412	3.6	27
31	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> , <b>2019</b> , 54, 2682-2694	2.5	11
30	Dye Pollutants removal from Waste water using Metal Oxide Nanoparticle embedded Activated Carbon: An Immobilization study. <i>Journal of Dispersion Science and Technology</i> , <b>2019</b> , 40, 563-573	1.5	19
29	An multifunction Zn <sub>0.3</sub> Mn <sub>0.4</sub> O <sub>4</sub> nanospheres for carbon dioxide reduction to methane via photocatalysis and reused after five cycles for phosphate adsorption. <i>Journal of Environmental Chemical Engineering</i> , <b>2018</b> , 6, 1918-1925	6.8	19

28	Design and synthesis of Zn <sub>0.3</sub> Fe <sub>0.45</sub> O <sub>3</sub> nanoparticle for efficient removal of Congo red dye and its kinetic and isotherm investigation. <i>International Journal of Industrial Chemistry</i> , <b>2018</b> , 9, 85-97	3.1	18
27	Experimental investigation on phosphate adsorption, mechanism and desorption properties of Mn-Zn-Ti oxide trimetal alloy nanocomposite. <i>Journal of Dispersion Science and Technology</i> , <b>2018</b> , 39, 1635-1643	1.5	18
26	Facile synthesis of Lead Doped Zinc-Aluminum Oxide Nanoparticles (LD-ZAO-NPs) for efficient adsorption of anionic dye: Kinetic, isotherm and thermodynamic behaviors. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2017</b> , 53, 294-306	6.3	30
25	Fluorescence Chemosensor for HSO <sub>4</sub> <sup>-</sup> Ion Based on Pyrrole-Substituted Salicylimine Zn (2+) Complex: Nanomolar Detection. <i>Journal of Fluorescence</i> , <b>2015</b> , 25, 819-24	2.4	6
24	Highly sensitive and selective determination of Hg <sup>2+</sup> 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. <i>Supramolecular Chemistry</i> , <b>2015</b> , 27, 527-532	1.8	14
23	2-((E)-(2-aminophenylimino)methyl)-6-isopropyl-3-methylphenol based fluorescent receptor for dual Ni <sup>2+</sup> and Cu <sup>2+</sup> recognition: Nanomolar detection. <i>Polyhedron</i> , <b>2015</b> , 87, 79-85	2.7	10
22	A novel phthalazine based highly selective chromogenic and fluorogenic chemosensor for Co(2+) in semi-aqueous medium: application in cancer cell imaging. <i>Photochemical and Photobiological Sciences</i> , <b>2015</b> , 14, 439-43	4.2	23
21	Pyrrole-coupled salicylimine-based fluorescence "turn on" probe for highly selective recognition of Zn <sup>2+</sup> ions in mixed aqueous media: Application in living cell imaging. <i>Journal of Molecular Recognition</i> , <b>2015</b> , 28, 369-75	2.6	16
20	A novel chromogenic and fluorogenic chemosensor for detection of trace water in methanol. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 210, 324-327	8.5	24
19	"Turn-on" fluorescent dipodal chemosensor for nano-molar detection of Zn(2+): application in living cells imaging. <i>Talanta</i> , <b>2014</b> , 125, 418-24	6.2	28
18	Urea based dipodal fluorescence receptor for sensing of Fe <sup>3+</sup> ion in semi-aqueous medium. <i>Journal of Fluorescence</i> , <b>2014</b> , 24, 27-37	2.4	22
17	Fluorescent and chromogenic receptor bearing amine and hydroxyl functionality for iron (III) detection in aqueous solution. <i>Journal of Fluorescence</i> , <b>2014</b> , 24, 675-81	2.4	19
16	Highly sensitive ratiometric chemosensor for selective 'naked-eye' nanomolar detection of Co(2+) in semi-aqueous media. <i>ChemPhysChem</i> , <b>2014</b> , 15, 2230-5	3.2	29
15	A selective and discriminating noncyclic receptor for HSO <sub>4</sub> <sup>-</sup> ion recognition. <i>RSC Advances</i> , <b>2014</b> , 4, 15288-7	3.7	39
14	2,2'-(Hydrazine-1,2-diylidenedimethylidene)bis(6-isopropyl-3-methylphenol) based selective dual-channel chemosensor for Cu <sup>2+</sup> in semi-aqueous media. <i>RSC Advances</i> , <b>2014</b> , 4, 39639-39644	3.7	32
13	Al <sup>3+</sup> selective colorimetric and fluorescent red shifting chemosensor: application in living cell imaging. <i>Dalton Transactions</i> , <b>2014</b> , 43, 2895-9	4.3	45
12	Colorimetric and fluorescent chemosensor for Cu <sup>2+</sup> in semi-aqueous medium. <i>Sensors and Actuators B: Chemical</i> , <b>2014</b> , 202, 924-928	8.5	33
11	Highly selective and sensitive receptor for Fe <sup>3+</sup> probing. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2014</b> , 121, 569-74	4.4	31

10	An amide based dipodal Zn <sup>2+</sup> complex for multications recognition: Nanomolar detection. <i>Journal of Luminescence</i> , <b>2014</b> , 149, 190-195	3.8	22
9	A selective fluorescent receptor for the determination of nickel (II) in semi-aqueous media. <i>Journal of Luminescence</i> , <b>2014</b> , 146, 234-238	3.8	24
8	An amide based dipodal Zn(2+) complex: nano-molar detection of HSO(4) (II) in a semi-aqueous system. <i>Organic and Biomolecular Chemistry</i> , <b>2013</b> , 11, 6824-8	3.9	31
7	Fluorescent recognition of Fe <sup>3+</sup> ion with photoinduced electron transfer (PET) sensor. <i>Chemical Physics Letters</i> , <b>2013</b> , 584, 165-171	2.5	34
6	NE[4-(diethylamino)-2-hydroxybenzylidene) isonicotinohydrazide based chemosensor for nanomolar detection of Ni(II) ion. <i>International Journal of Environmental Analytical Chemistry</i> , 1-17	1.8	0
5	Effective adsorption of Fuch sine dye on FeZnOAC: kinetic, isotherm, double-layer modelling and reusability study. <i>International Journal of Environmental Analytical Chemistry</i> , 1-17	1.8	1
4	Statistical Physics Model of EBT Adsorption on Pb(II) doped Zinc Oxide Nanoparticles: Kinetics, Isotherm and Reuse Study. <i>International Journal of Environmental Analytical Chemistry</i> , 1-15	1.8	2
3	Double-layer modelling and physicochemical parameters interpretation for chromium adsorption on ZnMnOAC nanocomposite. <i>Inorganic and Nano-Metal Chemistry</i> , 1-11	1.2	1
2	Experimental and statistical investigation of adsorption mechanism of toxic chromium on Al-Fe-Zn oxide nanocomposite and successful application on industrial wastewater. <i>International Journal of Environmental Analytical Chemistry</i> , 1-15	1.8	1
1	Recent development of aqueous zinc-ion battery cathodes and future challenges: Review. <i>International Journal of Energy Research</i> ,	4.5	4