

# Hamid Reza Rajabi

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

3,134  
citations

126907

33  
h-index

155660

55  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2712  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-performance pure and Fe <sup>3+</sup> -ion doped ZnS quantum dots as green nanophotocatalysts for the removal of malachite green under UV-light irradiation. <i>Journal of Hazardous Materials</i> , 2013, 250-251, 370-378.	12.4	280
2	Graphene quantum dots as novel and green nano-materials for the visible-light-driven photocatalytic degradation of cationic dye. <i>Journal of Molecular Catalysis A</i> , 2015, 409, 102-109.	4.8	130
3	Effect of transition metal ion doping on the photocatalytic activity of ZnS quantum dots: Synthesis, characterization, and application for dye decolorization. <i>Journal of Molecular Catalysis A</i> , 2015, 399, 53-61.	4.8	129
4	Development of a highly selective voltammetric sensor for nanomolar detection of mercury ions using glassy carbon electrode modified with a novel ion imprinted polymeric nanobeads and multi-wall carbon nanotubes. <i>Journal of Electroanalytical Chemistry</i> , 2013, 693, 16-22.	3.8	127
5	Study of photocatalytic activity of ZnS quantum dots as efficient nanoparticles for removal of methyl violet: Effect of ferric ion doping. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 122, 260-267.	3.9	108
6	Selective spectrofluorimetric determination of sulfide ion using manganese doped ZnS quantum dots as luminescent probe. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 107, 256-262.	3.9	101
7	Microwave assisted extraction as an efficient approach for biosynthesis of zinc oxide nanoparticles: Synthesis, characterization, and biological properties. <i>Materials Science and Engineering C</i> , 2017, 78, 1109-1118.	7.3	100
8	Development of ion imprinted technique for designing nickel ion selective membrane. <i>Journal of Membrane Science</i> , 2011, 373, 36-42.	8.2	97
9	Synthesis and characterizations of ultra-small ZnS and Zn(1-x)FexS quantum dots in aqueous media and spectroscopic study of their interactions with bovine serum albumin. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 79, 361-369.	3.9	95
10	Pure zinc sulfide quantum dot as highly selective luminescent probe for determination of hazardous cyanide ion. <i>Materials Science and Engineering C</i> , 2014, 36, 139-145.	7.3	94
11	Surface modified magnetic nanoparticles as efficient and green sorbents: Synthesis, characterization, and application for the removal of anionic dye. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 394, 7-13.	2.3	90
12	Study of capping agent effect on the structural, optical and photocatalytic properties of zinc sulfide quantum dots. <i>Materials Science in Semiconductor Processing</i> , 2016, 48, 14-22.	4.0	88
13	Pure and Fe <sup>3+</sup> -doped ZnS quantum dots as novel and efficient nanophotocatalysts: Synthesis, characterization and use for decolorization of Victoria blue R. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 1154-1161.	4.0	82
14	Fast sonochemically-assisted synthesis of pure and doped zinc sulfide quantum dots and their applicability in organic dye removal from aqueous media. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2018, 181, 98-105.	3.8	81
15	On-line flow injection solid phase extraction using imprinted polymeric nanobeads for the preconcentration and determination of mercury ions. <i>Chemical Engineering Journal</i> , 2015, 259, 330-337.	12.7	77
16	Highly selective detection of dopamine in the presence of ascorbic acid and uric acid using thioglycolic acid capped CdTe quantum dots modified electrode. <i>Journal of Electroanalytical Chemistry</i> , 2014, 712, 19-24.	3.8	74
17	A comparison investigation on photocatalytic activity performance and adsorption efficiency for the removal of cationic dye: Quantum dots vs. magnetic nanoparticles. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 2830-2840.	6.7	74
18	Rapid and green synthesis of cadmium telluride quantum dots with low toxicity based on a plant-mediated approach after microwave and ultrasonic assisted extraction: Synthesis, characterization, biological potentials and comparison study. <i>Materials Science and Engineering C</i> , 2019, 98, 535-544.	7.3	71

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19	Flame photometric determination of cesium ion after its preconcentration with nanoparticles imprinted with the cesium-dibenzo-24-crown-8 complex. <i>Mikrochimica Acta</i> , 2013, 180, 243-252.	5.0	70
20	Rapid sonochemical water-based synthesis of functionalized zinc sulfide quantum dots: Study of capping agent effect on photocatalytic activity. <i>Ultrasonics Sonochemistry</i> , 2019, 57, 139-146.	8.2	69
21	Quantum dot based photocatalytic decolorization as an efficient and green strategy for the removal of anionic dye. <i>Materials Science in Semiconductor Processing</i> , 2015, 31, 478-486.	4.0	65
22	Ion imprinted polymeric nanoparticles for selective separation and sensitive determination of zinc ions in different matrices. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 117, 24-33.	3.9	62
23	Development of a selective and sensitive voltammetric sensor for propylparaben based on a nanosized molecularly imprinted polymer-carbon paste electrode. <i>Materials Science and Engineering C</i> , 2014, 36, 102-107.	7.3	61
24	Synthesis, characterization and application of ion imprinted polymeric nanobeads for highly selective preconcentration and spectrophotometric determination of Ni <sup>2+</sup> ion in water samples. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 153, 45-52.	3.9	53
25	Preparation of a novel potassium ion imprinted polymeric nanoparticles based on dicyclohexyl 18C6 for selective determination of K <sup>+</sup> ion in different water samples. <i>Materials Science and Engineering C</i> , 2013, 33, 3374-3381.	7.3	51
26	Study of the interaction between human serum albumin and Mn-doped ZnS quantum dots. <i>Journal of the Iranian Chemical Society</i> , 2015, 12, 1729-1738.	2.2	51
27	Green synthesis of zinc sulfide nanophotocatalysts using aqueous extract of <i>Ficus Johannis</i> plant for efficient photodegradation of some pollutants. <i>Journal of Materials Research and Technology</i> , 2020, 9, 15638-15647.	5.8	47
28	Bulk polymer nanoparticles containing a tetrakis(3-hydroxyphenyl)porphyrin for fast and highly selective separation of mercury ions. <i>Mikrochimica Acta</i> , 2013, 180, 791-799.	5.0	46
29	Ultrasonic and microwave assisted extraction as rapid and efficient techniques for plant mediated synthesis of quantum dots: green synthesis, characterization of zinc telluride and comparison study of some biological activities. <i>New Journal of Chemistry</i> , 2019, 43, 15126-15138.	2.8	46
30	Rapid and selective diagnose of Sarcosine in urine samples as prostate cancer biomarker by mesoporous imprinted polymeric nanobeads modified electrode. <i>Sensors and Actuators B: Chemical</i> , 2020, 309, 127559.	7.8	46
31	Application of decorated magnetic nanophotocatalysts for efficient photodegradation of organic dye: A comparison study on photocatalytic activity of magnetic zinc sulfide and graphene quantum dots. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 397, 112534.	3.9	44
32	Zinc sulfide quantum dots as powerful and efficient nanophotocatalysts for the removal of industrial pollutant. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 9297-9305.	2.2	42
33	Potentiometric study of binary complexes of methyl 2-pyridyl ketone oxime, phenyl 2-pyridyl ketone oxime and diacetyl monooxime with some transition and heavy metal ions in aqueous solution. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2008, 71, 655-662.	3.9	39
34	Porphyrin based nano-sized imprinted polymer as an efficient modifier for the design of a potentiometric copper carbon paste electrode. <i>RSC Advances</i> , 2017, 7, 14923-14931.	3.6	34
35	Application of a nano-structured molecularly imprinted polymer as an efficient modifier for the design of captopril drug selective sensor: Mechanism study and quantitative determination. <i>Materials Science and Engineering C</i> , 2019, 94, 879-885.	7.3	32
36	Green-photodegradation of model pharmaceutical contaminations over biogenic Fe <sub>3</sub> O <sub>4</sub> /Au nanocomposite and antimicrobial activity. <i>Journal of Environmental Management</i> , 2020, 270, 110831.	7.8	31

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37	Selective and rapid extraction of piroxicam from water and plasma samples using magnetic imprinted polymeric nanosorbent: Synthesis, characterization and application. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 586, 124253.	4.7	29
38	Different metal-doped ZnS quantum dots photocatalysts for enhancing the permeability and antifouling performances of polysulfone membranes with and without UV irradiation. <i>Chemosphere</i> , 2022, 294, 133705.	8.2	26
39	Development of flow injection analysis-solid phase extraction based on ion imprinted polymeric nanoparticles as an efficient and selective technique for preconcentration of zinc ions from aqueous solution. <i>New Journal of Chemistry</i> , 2017, 41, 8828-8836.	2.8	25
40	Comparison study on separation of morin: ultrasound assisted molecularly imprinted polymeric nanoparticles-solid phase extraction versus solidification of floating organic-drop assisted dispersive liquid-liquid microextraction. <i>New Journal of Chemistry</i> , 2017, 41, 14236-14245.	2.8	24
41	Determination of Rosmarinic acid in plant extracts using a modified sensor based on magnetic imprinted polymeric nanostructures. <i>Sensors and Actuators B: Chemical</i> , 2020, 323, 128668.	7.8	24
42	Improvement of dye and protein filtration efficiency using modified PES membrane with 2-mercaptoethanol capped zinc sulfide quantum dots. <i>Chemical Engineering Research and Design</i> , 2021, 168, 109-121.	5.6	24
43	Highly Selective and Sensitized Spectrophotometric Determination of Iron (III) Following Potentiometric Study. <i>Annali Di Chimica</i> , 2007, 97, 823-836.	0.6	22
44	Development of a new chemically modified carbon paste electrode based on nano-sized molecular imprinted polymer for selective and sensitive determination of naproxen. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 10911-10920.	2.2	22
45	Application of ion-imprinted polymer synthesized by precipitation polymerization as an efficient and selective sorbent for separation and pre-concentration of chromium ions from some real samples. <i>Journal of the Iranian Chemical Society</i> , 2018, 15, 2241-2249.	2.2	20
46	Application of graphene quantum dots as green homogenous nanophotocatalyst in the visible-light-driven photolytic process. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 5135-5143.	2.2	19
47	In situ simultaneous chemical activation and exfoliation of carbon quantum dots for atmospheric adsorption of H <sub>2</sub> S and CO <sub>2</sub> at room temperature. <i>Applied Surface Science</i> , 2021, 559, 149892.	6.1	17
48	Highly Selective Perchlorate Membrane Electrode Based on Cobalt(III) Schiff Base as a Neutral Carrier. <i>Chinese Journal of Chemistry</i> , 2009, 27, 258-266.	4.9	16
49	Synthesis, characterization and application of spherical and uniform molecularly imprinted polymeric nanobeads as efficient sorbent for selective extraction of rosmarinic acid from plant matrix. <i>Journal of Materials Research and Technology</i> , 2021, 12, 2298-2306.	5.8	15
50	New blend nanocomposite membranes based on PBI/sulfonated poly(ether keto imide) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 <i>International Journal of Energy Research</i> , 2021, 45, 21274-21292.	4.5	14
51	Combination of plant-mediated and sonochemical-assisted synthesis for preparation of low-toxic cadmium selenide semiconductor nanoparticles: Study of the effect of extraction techniques, characterization, comparative study of biological activities. <i>Surfaces and Interfaces</i> , 2021, 25, 101182.	3.0	8
52	Nanocomposite proton exchange membranes based on sulfonated polyethersulfone and functionalized quantum dots for fuel cell application. <i>International Journal of Energy Research</i> , 0, , .	4.5	8
53	Exploring the binding mechanism of saccharin and sodium saccharin to promoter of human p53 gene by theoretical and experimental methods. <i>Journal of Biomolecular Structure and Dynamics</i> , 2020, 38, 548-564.	3.5	7
54	Study of photocatalytic and electrocatalytic activities of calcium tungstate nanoparticles synthesized via surfactant-supported hydrothermal method. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 20255-20269.	2.2	7

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55	UV and visible-assisted photocatalytic degradation of pharmaceutical pollutants in the presence of rational designed biogenic Fe <sub>3</sub> O <sub>4</sub> -Au nanocomposite. <i>Environmental Science and Pollution Research</i> , 2021, 28, 33344-33354.	5.3	7
56	Highly selective determination of alanine in urine sample using a modified electrochemical sensor based on silica nanoparticles-imprinted polymer. <i>Journal of the Iranian Chemical Society</i> , 2022, 19, 4139-4148.	2.2	6
57	Combined effect of $\hat{1}^2$ -aminobutyric acid and silver nanoparticles on eggplants, <i>Solanum melongena</i> , infected with <i>Meloidogyne</i> $\hat{A}$ <i>Javanica</i> . <i>Nematology</i> , 2021, 23, 1-16.	0.6	5
58	Application of flow injection analysis-solid phase extraction based on ion-pair formation for selective preconcentration of trace amount of anti-HIV drug. <i>Microchemical Journal</i> , 2022, 177, 107245.	4.5	2