

# Morteza Hosseini

## List of Publications by Year in descending order

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93  
papers

3,582  
citations

94269

37  
h-index

143772

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95  
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95  
docs citations

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times ranked

3215  
citing authors

#	ARTICLE	IF	CITATIONS
1	FRET-based aptamer biosensor for selective and sensitive detection of aflatoxin B1 in peanut and rice. <i>Food Chemistry</i> , 2017, 220, 527-532.	4.2	195
2	Visual detection of cancer cells by colorimetric aptasensor based on aggregation of gold nanoparticles induced by DNA hybridization. <i>Analytica Chimica Acta</i> , 2016, 904, 92-97.	2.6	152
3	A Schiff Base Complex of Zn(II) as a Neutral Carrier for Highly Selective PVC Membrane Sensors for the Sulfate Ion. <i>Analytical Chemistry</i> , 2001, 73, 2869-2874.	3.2	123
4	Fluorescence "turn-on" chemosensor for the selective detection of zinc ion based on Schiff-base derivative. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2010, 75, 978-982.	2.0	122
5	Lanthanum(III) PVC Membrane Electrodes Based on 1,3,5-Trithiacyclohexane. <i>Analytical Chemistry</i> , 2002, 74, 5538-5543.	3.2	100
6	Novel gadolinium poly(vinyl chloride) membrane sensor based on a new Schiff's base. <i>Analytica Chimica Acta</i> , 2003, 495, 51-59.	2.6	95
7	Novel terbium(III) sensor based on a new bis-pyrrolidene Schiff's base. <i>Sensors and Actuators B: Chemical</i> , 2005, 105, 334-339.	4.0	91
8	A selective optode membrane for silver ion based on fluorescence quenching of the dansylamidopropyl pendant arm derivative of 1-aza-4,7,10-trithiacyclododecane ([12]aneNS3). <i>Sensors and Actuators B: Chemical</i> , 2006, 113, 892-899.	4.0	85
9	Novel fluorimetric bulk optode membrane based on a dansylamidopropyl pendant arm derivative of 1-aza-4,10-dithia-7-oxacyclododecane ([12]aneNS2O) for selective subnanomolar detection of Hg(II) ions. <i>Analytica Chimica Acta</i> , 2005, 533, 17-24.	2.6	84
10	Label free colorimetric and fluorimetric direct detection of methylated DNA based on silver nanoclusters for cancer early diagnosis. <i>Biosensors and Bioelectronics</i> , 2015, 73, 108-113.	5.3	84
11	Label-free fluorescent detection of microRNA-155 based on synthesis of hairpin DNA-templated copper nanoclusters by etching (top-down approach). <i>Sensors and Actuators B: Chemical</i> , 2017, 248, 133-139.	4.0	77
12	Highly Selective Iodide Membrane Electrode Based on a Cerium Salen. <i>Analytical Sciences</i> , 2002, 18, 289-292.	0.8	76
13	Interaction study of pioglitazone with albumin by fluorescence spectroscopy and molecular docking. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 78, 96-101.	2.0	76
14	Novel Gadolinium PVC-Based Membrane Sensor Based on Omeprazole as an Antibiotic. <i>Electroanalysis</i> , 2003, 15, 1038-1042.	1.5	75
15	Novel Dy(III) Sensor Based on a New Bis-Pyrrolidene Schiff's Base. <i>Electroanalysis</i> , 2004, 16, 1771-1776.	1.5	75
16	A turn-on fluorescent sensor for Zn <sup>2+</sup> based on new Schiff's base derivative in aqueous media. <i>Sensors and Actuators B: Chemical</i> , 2014, 198, 411-415.	4.0	73
17	PVC-BASED 1,3,5-TRITHIANE COATED GRAPHITE ELECTRODE FOR DETERMINATION OF CERIUM(III) IONS. <i>Analytical Letters</i> , 2001, 34, 2249-2261.	1.0	72
18	Development of a new fluorimetric bulk optode membrane based on 2,5-thiophenylbis(5-tert-butyl-1,3-benzoxazole) for nickel(II) ions. <i>Analytica Chimica Acta</i> , 2004, 501, 55-60.	2.6	71

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19	Fluorescence based turn-on strategy for determination of microRNA-155 using DNA-templated copper nanoclusters. <i>Mikrochimica Acta</i> , 2017, 184, 2671-2677.	2.5	70
20	A Survey on Data Compression Methods for Biological Sequences. <i>Information (Switzerland)</i> , 2016, 7, 56.	1.7	67
21	A fluorometric aptamer based assay for cytochrome C using fluorescent graphitic carbon nitride nanosheets. <i>Mikrochimica Acta</i> , 2017, 184, 2157-2163.	2.5	60
22	Polymeric membrane and coated graphite samarium(III)-selective electrodes based on isopropyl 2-[(isopropoxycarbothioyl)disulfanyl]ethanethioate. <i>Analytica Chimica Acta</i> , 2003, 486, 93-99.	2.6	57
23	PVC Membrane and Coated Graphite Potentiometric Sensors Based on Et <sub>4</sub> todit for Selective Determination of Samarium(III). <i>Analytical Chemistry</i> , 2003, 75, 5680-5686.	3.2	56
24	Ho <sup>3+</sup> carbon paste sensor based on multi-walled carbon nanotubes: Applied for determination of holmium content in biological and environmental samples. <i>Materials Science and Engineering C</i> , 2010, 30, 555-560.	3.8	51
25	Rapid restriction enzyme free detection of DNA methyltransferase activity based on DNA-templated silver nanoclusters. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 4311-4318.	1.9	51
26	PVC Membrane Potentiometric Sensor Based on 5-Pyridino-2,8-dithia[9](2,9)-1,10-phenanthroline- phane for Selective Determination of Neodymium(III). <i>Analytical Chemistry</i> , 2005, 77, 276-283.	3.2	50
27	Selective recognition of monohydrogen phosphate by fluorescence enhancement of a new cerium complex. <i>Analytica Chimica Acta</i> , 2011, 708, 107-110.	2.6	50
28	DNA methyltransferase activity detection based on graphene quantum dots using fluorescence and fluorescence anisotropy. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 217-223.	4.0	50
29	A novel solid-state electrochemiluminescence sensor for detection of cytochrome c based on ceria nanoparticles decorated with reduced graphene oxide nanocomposite. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 7193-7202.	1.9	49
30	Novel Fluorometric Assay for Detection of Cysteine as a Reducing Agent and Template in Formation of Copper Nanoclusters. <i>Journal of Fluorescence</i> , 2017, 27, 529-536.	1.3	48
31	A fluorescent aptasensor for sensitive analysis oxytetracycline based on silver nanoclusters. <i>Luminescence</i> , 2016, 31, 1339-1343.	1.5	47
32	A novel dichromate-sensitive fluorescent nano-chemosensor using new functionalized SBA-15. <i>Analytica Chimica Acta</i> , 2012, 715, 80-85.	2.6	46
33	A selective membrane electrode for iodide ion based on a thiopyrilium ion derivative as a new ionophore. <i>Microchemical Journal</i> , 2002, 72, 77-83.	2.3	45
34	Medical ultrasound image compression using contextual vector quantization. <i>Computers in Biology and Medicine</i> , 2012, 42, 743-750.	3.9	45
35	Novel coated-graphite membrane sensor based on N,N'-dimethylcyanodiaza-18-crown-6 for the determination of ultra-trace amounts of lead. <i>Analytica Chimica Acta</i> , 2002, 464, 181-186.	2.6	42
36	A novel permanganate-sensitive fluorescent nano-chemosensor assembled with a new 8-hydroxyquinoline-functionalized SBA-15. <i>Talanta</i> , 2012, 88, 684-688.	2.9	38

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37	A Novel Label-Free microRNA-155 Detection on the Basis of Fluorescent Silver Nanoclusters. <i>Journal of Fluorescence</i> , 2015, 25, 925-929.	1.3	38
38	Novel erbium (III)-selective fluorimetric bulk optode. <i>Sensors and Actuators B: Chemical</i> , 2009, 142, 90-96.	4.0	37
39	Selective recognition histidine and tryptophan by enhanced chemiluminescence ZnSe quantum dots. <i>Sensors and Actuators B: Chemical</i> , 2015, 210, 349-354.	4.0	37
40	An enhanced electrochemiluminescence sensor modified with a Ru(bpy) <sub>3</sub> <sup>2+</sup> /Yb <sub>2</sub> O <sub>3</sub> nanoparticle/nafion composite for the analysis of methadone samples. <i>Materials Science and Engineering C</i> , 2017, 76, 483-489.	3.8	33
41	Determination of terbium in phosphate rock by Tb <sup>3+</sup> -selective fluorimetric optode based on dansyl derivative as a neutral fluorogenic ionophore. <i>Analytica Chimica Acta</i> , 2010, 664, 172-177.	2.6	32
42	A Nanobiosensor Based on Fluorescent DNA-Hosted Silver Nanocluster and HCR Amplification for Detection of MicroRNA Involved in Progression of Multiple Sclerosis. <i>Journal of Fluorescence</i> , 2017, 27, 1679-1685.	1.3	31
43	A Novel Cobalt-Sensitive Fluorescent Chemosensor Based on Ligand Capped CdS Quantum Dots. <i>Journal of Fluorescence</i> , 2015, 25, 613-619.	1.3	30
44	The number of k-mer matches between two DNA sequences as a function of k and applications to estimate phylogenetic distances. <i>PLoS ONE</i> , 2020, 15, e0228070.	1.1	30
45	Enhanced solid-state electrochemiluminescence of Ru(bpy) <sub>3</sub> <sup>2+</sup> with nano-CeO <sub>2</sub> -modified carbon paste electrode and its application in tramadol determination. <i>Analytical Methods</i> , 2015, 7, 1936-1942.	1.3	28
46	Pyrophosphate Selective Recognition in Aqueous Solution Based on Fluorescence Enhancement of a New Aluminium Complex. <i>Journal of Fluorescence</i> , 2011, 21, 1509-1513.	1.3	27
47	A selective fluorescent bulk sensor for lutetium based on hexagonal mesoporous structures. <i>Sensors and Actuators B: Chemical</i> , 2013, 184, 93-99.	4.0	26
48	Selective recognition of Glutamate based on fluorescence enhancement of graphene quantum dot. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 136, 1962-1966.	2.0	26
49	Highly Selective Ratiometric Fluorescent Sensor for La(III) Ion Based on a New Schiff's Base. <i>Analytical Letters</i> , 2009, 42, 1029-1040.	1.0	25
50	Novel selective optode membrane for terbium ion based on fluorescence quenching of the 2-(5-(dimethylamino) naphthalen-1-ylsulfonyl)-N-henylhydrazinocarbothioamid. <i>Sensors and Actuators B: Chemical</i> , 2010, 147, 23-30.	4.0	25
51	Highly selective ratiometric fluorescence determination of Eu <sup>3+</sup> ion based on (4E)-4-(2-phenyldiazenyl)-2-((E)-(2-aminoethylimino)methyl)phenol. <i>Materials Science and Engineering C</i> , 2010, 30, 929-933.	3.8	23
52	A novel solid-state electrochemiluminescence sensor based on a Ru(bpy) <sub>3</sub> <sup>2+</sup> /nano Sm <sub>2</sub> O <sub>3</sub> -modified carbon paste electrode for the determination of l-proline. <i>RSC Advances</i> , 2015, 5, 64669-64674.	1.7	23
53	Determination of Hg(II) ions in water samples by a novel Hg(II) sensor, based on calix[4]arene derivative. <i>International Journal of Environmental Analytical Chemistry</i> , 2009, 89, 407-422.	1.8	22
54	Copper nanocluster-enhanced luminol chemiluminescence for high selectivity sensing of tryptophan and phenylalanine. <i>Luminescence</i> , 2017, 32, 1045-1050.	1.5	22

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55	Lanthanide recognition: A dysprosium(III) selective fluorimetric bulk optode. <i>Sensors and Actuators B: Chemical</i> , 2012, 171-172, 644-651.	4.0	21
56	Fast Removal of Methylene Blue from Aqueous Solution Using Magnetic-Modified Fe <sub>3</sub> O <sub>4</sub> Nanoparticles. <i>Journal of Environmental Engineering, ASCE</i> , 2015, 141, .	0.7	21
57	Disulfide-induced self-assembled targets: A novel strategy for the label free colorimetric detection of DNAs/RNAs via unmodified gold nanoparticles. <i>Scientific Reports</i> , 2017, 7, 45837.	1.6	21
58	Selective recognition of acetate ion based on fluorescence enhancement chemosensor. <i>Luminescence</i> , 2012, 27, 341-345.	1.5	20
59	Enhanced chemiluminescence CdSe quantum dots by histidine and tryptophan. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 132, 629-633.	2.0	20
60	Cryfa: a secure encryption tool for genomic data. <i>Bioinformatics</i> , 2019, 35, 146-148.	1.8	19
61	A novel ratiometric fluorescent Yb <sup>3+</sup> sensor based on a N-((1-oxoacenaphthylen-2(1H)-ylidene)furan-2-carbohydrazide as a suitable fluorophore. <i>Materials Science and Engineering C</i> , 2010, 30, 348-351.	3.8	18
62	A novel europium-sensitive fluorescent nano-chemosensor based on new functionalized magnetic core-shell Fe <sub>3</sub> O <sub>4</sub> @SiO <sub>2</sub> nanoparticles. <i>Talanta</i> , 2013, 115, 271-276.	2.9	18
63	An Apt-Biosensor for Colon Cancer Diagnostics. <i>Sensors</i> , 2015, 15, 22291-22303.	2.1	18
64	Rapid pre-symptomatic recognition of tristetra viral RNA by a novel fluorescent self-dimerized DNA-silver nanocluster probe. <i>RSC Advances</i> , 2016, 6, 99437-99443.	1.7	17
65	PVC Membrane and Coated Graphite Potentiometric Sensors Based on Dibenzo[2,1-c]crown[7] for Selective Determination of Rubidium Ions. <i>Analytical Letters</i> , 2005, 38, 573-588.	1.0	16
66	Fluorescence Turn-On-chemosensor for the selective detection of beryllium. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2011, 83, 161-164.	2.0	16
67	Selective recognition of dysprosium(III) ions by enhanced chemiluminescence CdSe quantum dots. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 121, 116-120.	2.0	16
68	Detection of p53 Gene Mutation (Single-Base Mismatch) Using a Fluorescent Silver Nanoclusters. <i>Journal of Fluorescence</i> , 2017, 27, 1443-1448.	1.3	16
69	A novel Lu <sup>3+</sup> fluorescent nano-chemosensor using new functionalized mesoporous structures. <i>Analytica Chimica Acta</i> , 2013, 771, 95-101.	2.6	15
70	Speciation of Chromium in Water Samples with Homogeneous Liquid-Liquid Extraction and Determination by Flame Atomic Absorption Spectrometry. <i>Bulletin of the Korean Chemical Society</i> , 2010, 31, 2813-2818.	1.0	14
71	Metagenomic Composition Analysis of an Ancient Sequenced Polar Bear Jawbone from Svalbard. <i>Genes</i> , 2018, 9, 445.	1.0	13
72	Smash++: an alignment-free and memory-efficient tool to find genomic rearrangements. <i>GigaScience</i> , 2020, 9, .	3.3	13

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73	A Reference-Free Lossless Compression Algorithm for DNA Sequences Using a Competitive Prediction of Two Classes of Weighted Models. <i>Entropy</i> , 2019, 21, 1074.	1.1	12
74	Synthesis and Assessment of DNA/Silver Nanoclusters Probes for Optimal and Selective Detection of Tristeza Virus Mild Strains. <i>Journal of Fluorescence</i> , 2016, 26, 1795-1803.	1.3	11
75	AC: A Compression Tool for Amino Acid Sequences. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2019, 11, 68-76.	2.2	10
76	A study of quenching and enhancing effects of some amino acids on peroxyoxalate chemiluminescence of rhodamine 6G. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 72, 484-489.	2.0	9
77	Sensitive determination of carbidopa through the electrochemiluminescence of luminol at graphene-modified electrodes. <i>Luminescence</i> , 2015, 30, 376-381.	1.5	9
78	Spectroscopic Study of CpG Alternating DNA-Methylene Blue Interaction for Methylation Detection. <i>Journal of Fluorescence</i> , 2016, 26, 1123-1129.	1.3	9
79	Highly Selective and Sensitive Tin(II) Membrane Electrode Based on a New Synthesized Schiff's Base. <i>Electroanalysis</i> , 2009, 21, 859-866.	1.5	8
80	Holmium(III)-selective fluorimetric optode based on N,N-bis(salicylidene)-naphthylene-1,8-diamine as a neutral fluorogenic ionophore. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2014, 121, 224-229.	2.0	8
81	GeCo2: An Optimized Tool for Lossless Compression and Analysis of DNA Sequences. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 137-145.	0.5	7
82	The fast peroxyoxalate-chemiluminescence of 3-1-aza-4,10-dithia-7-oxacyclododecane as a novel fluorophore. <i>Journal of Luminescence</i> , 2012, 132, 2126-2129.	1.5	6
83	Substitutional Tolerant Markov Models for Relative Compression of DNA Sequences. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 265-272.	0.5	6
84	Visualization of Distinct DNA Regions of the Modern Human Relatively to a Neanderthal Genome. <i>Lecture Notes in Computer Science</i> , 2017, , 235-242.	1.0	2
85	Cryfa: A Tool to Compact and Encrypt FASTA Files. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 305-312.	0.5	2
86	On the Role of Inverted Repeats in DNA Sequence Similarity. <i>Advances in Intelligent Systems and Computing</i> , 2017, , 228-236.	0.5	1
87	Compression of Amino Acid Sequences. <i>Advances in Intelligent Systems and Computing</i> , 2019, , 105-113.	0.5	0
88	A Probabilistic Method to Find and Visualize Distinct Regions in Protein Sequences. , 2019, , .		0
89	Genome and Methylome analysis of a phylogenetic novel <i>Campylobacter coli</i> cluster with <i>C. jejuni</i> introgression. <i>Microbial Genomics</i> , 2021, 7, .	1.0	0
90	Visualization of Similar Primer and Adapter Sequences in Assembled Archaeal Genomes. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 129-136.	0.5	0

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91	Title is missing!. , 2020, 15, e0228070.		0
92	Title is missing!. , 2020, 15, e0228070.		0
93	Title is missing!. , 2020, 15, e0228070.		0