Mohammad Reza Hormozi-Nezhad

List of Publications by Year
in descending order

70 papers	2,580 citations	186265 28 h-index	206112 48 g-index
71 all docs	71 docs citations	71 times ranked	3237 citing authors

#	Article	IF	Citations
1	Nanostructure-based optical sensor arrays. , 2022, , 523-565.		2
2	A wide-range pH indicator based on colorimetric patterns of gold@silver nanorods. Sensors and Actuators B: Chemical, 2022, 358, 131479.	7.8	16
3	A Novel Ratiometric Fluorescent Approach for the Modulation of the Dynamic Range of Lateral Flow Immunoassays. Advanced Materials Technologies, 2022, 7, .	5.8	17
4	Multiplex detection of antidepressants with a single component condition-based colorimetric sensor array. Sensors and Actuators B: Chemical, 2022, 363, 131855.	7.8	8
5	Determination of spermine and spermidine in meat with a ratiometric fluorescence nanoprobe and a combinational logic gate. Food Chemistry, 2022, 384, 132459.	8.2	14
6	Visual Recognition of Tryptophan Enantiomers Using Chiral Self Assemblies of Quantum Dots. ACS Applied Nano Materials, 2022, 5, 1460-1471.	5.0	11
7	Providing Multicolor Plasmonic Patterns with Au@Ag Coreâ€“Shell Nanostructures for Visual Discrimination of Biogenic Amines. ACS Applied Materials & Interfaces, 2021, 13, 20865-20874.	8.0	40
8	Simultaneous detection and identification of thiometon, phosalone, and prothioconazole pesticides using a nanoplasmonic sensor array. Food and Chemical Toxicology, 2021, 151, 112109.	3.6	19
9	Electrochromism: An emerging and promising approach in (bio)sensing technology. Materials Today, 2021, 50, 476-498.	14.2	33
10	A Smartphone-Based Fluorescent Electronic Tongue for Tracing Dopaminergic Agents in Human Urine. ACS Chemical Neuroscience, 2021, 12, 3157-3166.	3.5	9
11	Radial basis function-artificial neural network (RBF-ANN) for simultaneous fluorescent determination of cysteine enantiomers in mixtures. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 261, 120029.	3.9	5
12	Identification of Catecholamine Neurotransmitters Using a Fluorescent Electronic Tongue. ACS Chemical Neuroscience, 2020, 11, 25-33.	3.5	16
13	Selective colorimetric detection of pentaerythritol tetranitrate (PETN) using arginine-mediated aggregation of gold nanoparticles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 228, 117803.	3.9	22
14	A smart-phone based ratiometric nanoprobe for label-free detection of methyl parathion. Sensors and Actuators B: Chemical, 2020, 322, 128580.	7.8	44
15	Nanoplasmonic sensor array for the detection and discrimination of pesticide residues in citrus fruits. Analytical Methods, 2020, 12, 5877-5884.	2.7	18
16	Application of NaYF₄:Yb/Er/Tm UCNPs in Array-Based Sensing of Neurotransmitters: From a Single Particle to a Multichannel Sensor Array. ACS Applied Materials & Interfaces, 2020, 12, 52976-52982.	8.0	35
17	Optical nanoprobes for chiral discrimination. Analyst, The, 2020, 145, 6416-6434.	3.5	16
18	Wide color-varying visualization of sulfide with a dual emissive ratiometric fluorescence assay using carbon dots and gold nanoclusters. Microchemical Journal, 2020, 157, 104960.	4.5	14

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19	Ratiometric fluorescent nanoprobes for visual detection: Design principles and recent advances - A review. Analytica Chimica Acta, 2019, 1079, 30-58.	5.4	239
20	A multichannel single-well sensor array for rapid and visual discrimination of catecholamine neurotransmitters. Sensors and Actuators B: Chemical, 2019, 296, 126691.	7.8	16
21	Design of a ratiometric fluorescence nanoprobe to detect plasma levels of levodopa. Microchemical Journal, 2019, 148, 591-596.	4.5	8
22	ThThnated Development of a pH assisted AgNP-based colorimetric sensor Array for simultaneous identification of phosalone and azinphosmethyl pesticides. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 219, 496-503.	3.9	26
23	Laser irradiation affects the biological identity and cellular uptake of plasmonic nanoparticles. Nanoscale, 2019, 11, 5974-5981.	5.6	8
24	Determination and identification of nitroaromatic explosives by a double-emitter sensor array. Talanta, 2019, 201, 230-236.	5.5	35
25	Chemiluminometric fingerprints for identification of plasmonic nanoparticles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 209, 85-94.	3.9	0
26	Gold Nanorod-Based Chrono-Colorimetric Sensor Arrays: A Promising Platform for Chemical Discrimination Applications. ACS Omega, 2018, 3, 1386-1394.	3.5	34
27	A new strategy to design colorful ratiometric probes and its application to fluorescent detection of Hg(II). Sensors and Actuators B: Chemical, 2018, 259, 894-899.	7.8	50
28	A nanopaper-based artificial tongue: a ratiometric fluorescent sensor array on bacterial nanocellulose for chemical discrimination applications. Nanoscale, 2018, 10, 2492-2502.	5.6	80
29	Label-free detection of Î²-amyloid peptides (AÎ²40 and AÎ²42): a colorimetric sensor array for plasma monitoring of Alzheimer's disease. Nanoscale, 2018, 10, 6361-6368.	5.6	68
30	Nanoparticle-based Chemiluminescence for Chiral Discrimination of Thiol-Containing Amino Acids. Scientific Reports, 2018, 8, 14011.	3.3	24
31	A rainbow ratiometric fluorescent sensor array on bacterial nanocellulose for visual discrimination of biothiols. Analyst, The, 2018, 143, 3415-3424.	3.5	54
32	Anti-aggregation of gold nanoparticles for metal ion discrimination: A promising strategy to design colorimetric sensor arrays. Sensors and Actuators B: Chemical, 2018, 270, 545-551.	7.8	70
33	A wide-color-varying ratiometric nanoprobe for detection of norepinephrine in urine samples. Analytica Chimica Acta, 2018, 1039, 124-131.	5.4	27
34	Cell shape affects nanoparticle uptake and toxicity: An overlooked factor at the nanobio interfaces. Journal of Colloid and Interface Science, 2018, 531, 245-252.	9.4	21
35	Time-Resolved Visual Chiral Discrimination of Cysteine Using Unmodified CdTe Quantum Dots. Scientific Reports, 2017, 7, 890.	3.3	29
36	Design of a ratiometric fluorescent probe for naked eye detection of dopamine. Analytical Methods, 2017, 9, 3505-3512.	2.7	39

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37	MoS₂ quantum-dots as a label-free fluorescent nanoprobe for the highly selective detection of methyl parathion pesticide. Analytical Methods, 2017, 9, 716-723.	2.7	49
38	Simple and rapid detection of l-dopa based on in situ formation of polylevodopa nanoparticles. Sensors and Actuators B: Chemical, 2017, 243, 715-720.	7.8	30
39	Nanoparticle-based optical sensor arrays. Nanoscale, 2017, 9, 16546-16563.	5.6	192
40	Colorimetric Fingerprints of Gold Nanorods for Discriminating Catecholamine Neurotransmitters in Urine Samples. Scientific Reports, 2017, 7, 8266.	3.3	58
41	Development of a Paper-Based Plasmonic Test Strip for Visual Detection of Methiocarb Insecticide. IEEE Sensors Journal, 2017, 17, 6044-6049.	4.7	20
42	Aggregation-based colorimetric sensor for determination of prothioconazole fungicide using colloidal silver nanoparticles (AgNPs). Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 187, 143-148.	3.9	17
43	Quick speciation of iron(ii) and iron(iii) in natural samples using a selective fluorescent carbon dot-based probe. Analytical Methods, 2016, 8, 4064-4068.	2.7	21
44	Gold-Nanoparticle-Based Colorimetric Sensor Array for Discrimination of Organophosphate Pesticides. Analytical Chemistry, 2016, 88, 8099-8106.	6.5	202
45	Multi-response optimization followed by multivariate calibration for simultaneous determination of carcinogenic polycyclic aromatic hydrocarbons in environmental samples using gold nanoparticles. RSC Advances, 2016, 6, 104254-104264.	3.6	8
46	Design a New Strategy Based on Nanoparticle-Enhanced Chemiluminescence Sensor Array for Biothiols Discrimination. Scientific Reports, 2016, 6, 32160.	3.3	32
47	A new bifunctional hybrid nanostructure as an active platform for photothermal therapy and MR imaging. Scientific Reports, 2016, 6, 27847.	3.3	20
48	Exploring Cellular Interactions of Liposomes Using Protein Corona Fingerprints and Physicochemical Properties. ACS Nano, 2016, 10, 3723-3737.	14.6	130
49	Identification of catecholamine neurotransmitters using fluorescence sensor array. Analytica Chimica Acta, 2016, 917, 85-92.	5.4	58
50	Development of a novel method for determination of mercury based on its inhibitory effect on horseradish peroxidase activity followed by monitoring the surface plasmon resonance peak of gold nanoparticles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016, 153, 709-713.	3.9	9
51	An ultrasensitive and selective turn-off fluorescent nanoprobe for the detection of copper ions. Analytical Methods, 2015, 7, 5067-5073.	2.7	13
52	Protein corona composition of gold nanoparticles/nanorods affects amyloid beta fibrillation process. Nanoscale, 2015, 7, 5004-5013.	5.6	107
53	Determination of nanoparticles using UV-Vis spectra. Nanoscale, 2015, 7, 5134-5139.	5.6	37
54	Using nano-QSAR to determine the most responsible factor(s) in gold nanoparticle exocytosis. RSC Advances, 2015, 5, 57030-57037.	3.6	33

#	Article	IF	Citations
55	A Visual Colorimetric Probe for Naked-Eye Detection of Pamidronate Disodium in Human Plasma Based on Aggregation of Citrate-Capped Gold Nanoparticles. Plasmonics, 2015, 10, 971-978.	3.4	8
56	Comment on â€œSimple fluorescence-based detection of Cr(<scp>iii</scp>) and Cr(<scp>vi</scp>) using unmodified gold nanoparticlesâ€•by M. Elavarasi, S. A. Alex, N. Chandrasekaran and A. Mukherjee, Anal. Methods, 2014, 6, 9554. Analytical Methods, 2015, 7, 6034-6034.	2.7	0
57	A colorimetric sensor array for detection and discrimination of biothiols based on aggregation of gold nanoparticles. Analytica Chimica Acta, 2015, 882, 58-67.	5.4	114
58	Colorimetric detection of glutathione based on transverse overgrowth of high aspect ratio gold nanorods investigated by MCR-ALS. RSC Advances, 2015, 5, 82906-82915.	3.6	9
59	Artificial neural network assisted kinetic spectrophotometric technique for simultaneous determination of paracetamol and p-aminophenol in pharmaceutical samples using localized surface plasmon resonance band of silver nanoparticles. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2015, 138, 474-480.	3.9	19
60	A colorimetric assay for d-Penicillamine in urine and plasma samples based on the aggregation of gold nanoparticles. Journal of the Iranian Chemical Society, 2014, 11, 1249-1255.	2.2	8
61	A second-order advantage achieved with the aid of gold nanoparticle catalytic activity. Determination of nitrophenol isomers in binary mixtures. Analytical Methods, 2014, 6, 3056-3064.	2.7	8
62	Colloidal Gold Nanoparticles: An Unexpected Catalytic Activity in Aqueous Phase with Dioxygen. Catalysis Letters, 2014, 144, 1219-1222.	2.6	4
63	Towards defining new nano-descriptors: extracting morphological features from transmission electron microscopy images. RSC Advances, 2014, 4, 60135-60143.	3.6	18
64	A sensitive and selective colorimetric method for detection of copper ions based on anti-aggregation of unmodified gold nanoparticles. Talanta, 2014, 129, 227-232.	5.5	48
65	Detecting intermediate particles in the growth of colloidal zinc oxide nanoparticles in different chemical routes using MCRâ€“ALS. Journal of Chemometrics, 2013, 27, 353-358.	1.3	7
66	Localized surface plasmon resonance sensor for simultaneous kinetic determination of peroxyacetic acid and hydrogen peroxide. Analytica Chimica Acta, 2013, 762, 87-93.	5.4	14
67	Thorough tuning of the aspect ratio of gold nanorods using response surface methodology. Analytica Chimica Acta, 2013, 779, 14-21.	5.4	25
68	Highly sensitive turn-on fluorescent detection of captopril based on energy transfer between fluorescein isothiocyanate and gold nanoparticles. Journal of Luminescence, 2013, 134, 874-879.	3.1	31
69	A simple shape-controlled synthesis of gold nanoparticles using nonionic surfactants. RSC Advances, 2013, 3, 7726.	3.6	38
70	Controlling aspect ratio of colloidal silver nanorods using response surface methodology. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2012, 393, 46-52.	4.7	25