

# Mohammad Reza Hormozi-Nezhad

## List of Publications by Year in descending order

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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	Ratiometric fluorescent nanoprobe for visual detection: Design principles and recent advances - A review. <i>Analytica Chimica Acta</i> , 2019, 1079, 30-58.	5.4	239
2	Gold-Nanoparticle-Based Colorimetric Sensor Array for Discrimination of Organophosphate Pesticides. <i>Analytical Chemistry</i> , 2016, 88, 8099-8106.	6.5	202
3	Nanoparticle-based optical sensor arrays. <i>Nanoscale</i> , 2017, 9, 16546-16563.	5.6	192
4	Exploring Cellular Interactions of Liposomes Using Protein Corona Fingerprints and Physicochemical Properties. <i>ACS Nano</i> , 2016, 10, 3723-3737.	14.6	130
5	A colorimetric sensor array for detection and discrimination of biothiols based on aggregation of gold nanoparticles. <i>Analytica Chimica Acta</i> , 2015, 882, 58-67.	5.4	114
6	Protein corona composition of gold nanoparticles/nanorods affects amyloid beta fibrillation process. <i>Nanoscale</i> , 2015, 7, 5004-5013.	5.6	107
7	A nanopaper-based artificial tongue: a ratiometric fluorescent sensor array on bacterial nanocellulose for chemical discrimination applications. <i>Nanoscale</i> , 2018, 10, 2492-2502.	5.6	80
8	Anti-aggregation of gold nanoparticles for metal ion discrimination: A promising strategy to design colorimetric sensor arrays. <i>Sensors and Actuators B: Chemical</i> , 2018, 270, 545-551.	7.8	70
9	Label-free detection of A $\beta$ -amyloid peptides (A $\beta$ 240 and A $\beta$ 242): a colorimetric sensor array for plasma monitoring of Alzheimer's disease. <i>Nanoscale</i> , 2018, 10, 6361-6368.	5.6	68
10	Identification of catecholamine neurotransmitters using fluorescence sensor array. <i>Analytica Chimica Acta</i> , 2016, 917, 85-92.	5.4	58
11	Colorimetric Fingerprints of Gold Nanorods for Discriminating Catecholamine Neurotransmitters in Urine Samples. <i>Scientific Reports</i> , 2017, 7, 8266.	3.3	58
12	A rainbow ratiometric fluorescent sensor array on bacterial nanocellulose for visual discrimination of biothiols. <i>Analyst</i> , 2018, 143, 3415-3424.	3.5	54
13	A new strategy to design colorful ratiometric probes and its application to fluorescent detection of Hg(II). <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 894-899.	7.8	50
14	MoS <sub>2</sub> quantum-dots as a label-free fluorescent nanoprobe for the highly selective detection of methyl parathion pesticide. <i>Analytical Methods</i> , 2017, 9, 716-723.	2.7	49
15	A sensitive and selective colorimetric method for detection of copper ions based on anti-aggregation of unmodified gold nanoparticles. <i>Talanta</i> , 2014, 129, 227-232.	5.5	48
16	A smart-phone based ratiometric nanoprobe for label-free detection of methyl parathion. <i>Sensors and Actuators B: Chemical</i> , 2020, 322, 128580.	7.8	44
17	Providing Multicolor Plasmonic Patterns with Au@Ag Core-Shell Nanostructures for Visual Discrimination of Biogenic Amines. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 20865-20874.	8.0	40
18	Design of a ratiometric fluorescent probe for naked eye detection of dopamine. <i>Analytical Methods</i> , 2017, 9, 3505-3512.	2.7	39

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19	A simple shape-controlled synthesis of gold nanoparticles using nonionic surfactants. RSC Advances, 2013, 3, 7726.	3.6	38
20	Determination of nanoparticles using UV-Vis spectra. Nanoscale, 2015, 7, 5134-5139.	5.6	37
21	Determination and identification of nitroaromatic explosives by a double-emitter sensor array. Talanta, 2019, 201, 230-236.	5.5	35
22	Application of NaYF <sub>4</sub> :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
23	Gold Nanorod-Based Chrono-Colorimetric Sensor Arrays: A Promising Platform for Chemical Discrimination Applications. ACS Omega, 2018, 3, 1386-1394.	3.5	34
24	Using nano-QSAR to determine the most responsible factor(s) in gold nanoparticle exocytosis. RSC Advances, 2015, 5, 57030-57037.	3.6	33
25	Electrochromism: An emerging and promising approach in (bio)sensing technology. Materials Today, 2021, 50, 476-498.	14.2	33
26	Design a New Strategy Based on Nanoparticle-Enhanced Chemiluminescence Sensor Array for Biothiols Discrimination. Scientific Reports, 2016, 6, 32160.	3.3	32
27	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
28	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
29	Time-Resolved Visual Chiral Discrimination of Cysteine Using Unmodified CdTe Quantum Dots. Scientific Reports, 2017, 7, 890.	3.3	29
30	A wide-color-varying ratiometric nanoprobe for detection of norepinephrine in urine samples. Analytica Chimica Acta, 2018, 1039, 124-131.	5.4	27
31	Thinned 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
32	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
33	Thorough tuning of the aspect ratio of gold nanorods using response surface methodology. Analytica Chimica Acta, 2013, 779, 14-21.	5.4	25
34	Nanoparticle-based Chemiluminescence for Chiral Discrimination of Thiol-Containing Amino Acids. Scientific Reports, 2018, 8, 14011.	3.3	24
35	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
36	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

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37	Cell shape affects nanoparticle uptake and toxicity: An overlooked factor at the nanobio interfaces. <i>Journal of Colloid and Interface Science</i> , 2018, 531, 245-252.	9.4	21
38	A new bifunctional hybrid nanostructure as an active platform for photothermal therapy and MR imaging. <i>Scientific Reports</i> , 2016, 6, 27847.	3.3	20
39	Development of a Paper-Based Plasmonic Test Strip for Visual Detection of Methiocarb Insecticide. <i>IEEE Sensors Journal</i> , 2017, 17, 6044-6049.	4.7	20
40	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. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2015, 138, 474-480.	3.9	19
41	Simultaneous detection and identification of thiometon, phosalone, and prothioconazole pesticides using a nanoplasmonic sensor array. <i>Food and Chemical Toxicology</i> , 2021, 151, 112109.	3.6	19
42	Towards defining new nano-descriptors: extracting morphological features from transmission electron microscopy images. <i>RSC Advances</i> , 2014, 4, 60135-60143.	3.6	18
43	Nanoplasmonic sensor array for the detection and discrimination of pesticide residues in citrus fruits. <i>Analytical Methods</i> , 2020, 12, 5877-5884.	2.7	18
44	Aggregation-based colorimetric sensor for determination of prothioconazole fungicide using colloidal silver nanoparticles (AgNPs). <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 187, 143-148.	3.9	17
45	A Novel Ratiometric Fluorescent Approach for the Modulation of the Dynamic Range of Lateral Flow Immunoassays. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	17
46	A multichannel single-well sensor array for rapid and visual discrimination of catecholamine neurotransmitters. <i>Sensors and Actuators B: Chemical</i> , 2019, 296, 126691.	7.8	16
47	Identification of Catecholamine Neurotransmitters Using a Fluorescent Electronic Tongue. <i>ACS Chemical Neuroscience</i> , 2020, 11, 25-33.	3.5	16
48	Optical nanoprobcs for chiral discrimination. <i>Analyst</i> , The, 2020, 145, 6416-6434.	3.5	16
49	A wide-range pH indicator based on colorimetric patterns of gold@silver nanorods. <i>Sensors and Actuators B: Chemical</i> , 2022, 358, 131479.	7.8	16
50	Localized surface plasmon resonance sensor for simultaneous kinetic determination of peroxyacetic acid and hydrogen peroxide. <i>Analytica Chimica Acta</i> , 2013, 762, 87-93.	5.4	14
51	Wide color-varying visualization of sulfide with a dual emissive ratiometric fluorescence assay using carbon dots and gold nanoclusters. <i>Microchemical Journal</i> , 2020, 157, 104960.	4.5	14
52	Determination of spermine and spermidine in meat with a ratiometric fluorescence nanoprobe and a combinational logic gate. <i>Food Chemistry</i> , 2022, 384, 132459.	8.2	14
53	An ultrasensitive and selective turn-off fluorescent nanoprobe for the detection of copper ions. <i>Analytical Methods</i> , 2015, 7, 5067-5073.	2.7	13
54	Visual Recognition of Tryptophan Enantiomers Using Chiral Self Assemblies of Quantum Dots. <i>ACS Applied Nano Materials</i> , 2022, 5, 1460-1471.	5.0	11

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55	Colorimetric detection of glutathione based on transverse overgrowth of high aspect ratio gold nanorods investigated by MCR-ALS. <i>RSC Advances</i> , 2015, 5, 82906-82915.	3.6	9
56	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. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2016, 153, 709-713.	3.9	9
57	A Smartphone-Based Fluorescent Electronic Tongue for Tracing Dopaminergic Agents in Human Urine. <i>ACS Chemical Neuroscience</i> , 2021, 12, 3157-3166.	3.5	9
58	A colorimetric assay for d-Penicillamine in urine and plasma samples based on the aggregation of gold nanoparticles. <i>Journal of the Iranian Chemical Society</i> , 2014, 11, 1249-1255.	2.2	8
59	A second-order advantage achieved with the aid of gold nanoparticle catalytic activity. Determination of nitrophenol isomers in binary mixtures. <i>Analytical Methods</i> , 2014, 6, 3056-3064.	2.7	8
60	A Visual Colorimetric Probe for Naked-Eye Detection of Pamidronate Disodium in Human Plasma Based on Aggregation of Citrate-Capped Gold Nanoparticles. <i>Plasmonics</i> , 2015, 10, 971-978.	3.4	8
61	Multi-response optimization followed by multivariate calibration for simultaneous determination of carcinogenic polycyclic aromatic hydrocarbons in environmental samples using gold nanoparticles. <i>RSC Advances</i> , 2016, 6, 104254-104264.	3.6	8
62	Design of a ratiometric fluorescence nanoprobe to detect plasma levels of levodopa. <i>Microchemical Journal</i> , 2019, 148, 591-596.	4.5	8
63	Laser irradiation affects the biological identity and cellular uptake of plasmonic nanoparticles. <i>Nanoscale</i> , 2019, 11, 5974-5981.	5.6	8
64	Multiplex detection of antidepressants with a single component condition-based colorimetric sensor array. <i>Sensors and Actuators B: Chemical</i> , 2022, 363, 131855.	7.8	8
65	Detecting intermediate particles in the growth of colloidal zinc oxide nanoparticles in different chemical routes using MCR-ALS. <i>Journal of Chemometrics</i> , 2013, 27, 353-358.	1.3	7
66	Radial basis function-artificial neural network (RBF-ANN) for simultaneous fluorescent determination of cysteine enantiomers in mixtures. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 261, 120029.	3.9	5
67	Colloidal Gold Nanoparticles: An Unexpected Catalytic Activity in Aqueous Phase with Dioxygen. <i>Catalysis Letters</i> , 2014, 144, 1219-1222.	2.6	4
68	Nanostructure-based optical sensor arrays. , 2022, , 523-565.		2
69	Comment on "Simple fluorescence-based detection of Cr(III) and Cr(VI) using unmodified gold nanoparticles" by M. Elavarasi, S. A. Alex, N. Chandrasekaran and A. Mukherjee, <i>Anal. Methods</i> , 2014, 6, 9554. <i>Analytical Methods</i> , 2015, 7, 6034-6034.	2.7	0
70	Chemiluminometric fingerprints for identification of plasmonic nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 209, 85-94.	3.9	0