

# Mustafa Ã-zmen

## List of Publications by Year in descending order

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56  
papers

1,743  
citations

279798

23  
h-index

276875

41  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2211  
citing authors

#	ARTICLE	IF	CITATIONS
1	Immobilization of albumin on aminosilane modified superparamagnetic magnetite nanoparticles and its characterization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2009, 71, 154-159.	5.0	232
2	A new electrochemical sensor based on Fe <sub>3</sub> O <sub>4</sub> functionalized graphene oxide-gold nanoparticle composite film for simultaneous determination of catechol and hydroquinone. <i>Electrochimica Acta</i> , 2015, 186, 302-313.	5.2	201
3	Adsorption of Cu(II) from aqueous solution by using modified Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticles. <i>Desalination</i> , 2010, 254, 162-169.	8.2	176
4	Functionalization of whole cell bacterial reporters with magnetic nanoparticles. <i>Microbial Biotechnology</i> , 2011, 4, 89-97.	4.2	81
5	Design of a new electrochemical sensing system based on MoS <sub>2</sub> /TiO <sub>2</sub> /reduced graphene oxide nanocomposite for the detection of paracetamol. <i>New Journal of Chemistry</i> , 2020, 44, 11759-11767.	2.8	67
6	Fabrication of novel anisotropic magnetic microparticles. <i>Journal of Materials Chemistry</i> , 2009, 19, 3475.	6.7	64
7	An Ag/TiO <sub>2</sub> /reduced graphene oxide hybrid film for electrochemical detection of 8-hydroxy-2'-deoxyguanosine as an oxidative DNA damage biomarker. <i>Analytical Methods</i> , 2020, 12, 499-506.	2.7	45
8	A comparison study of MFe <sub>2</sub> O <sub>4</sub> (M: Ni, Cu, Zn)-reduced graphene oxide nanocomposite for electrochemical detection of bisphenol A. <i>Electrochimica Acta</i> , 2021, 386, 138519.	5.2	44
9	Preparation of pillar[5]arene-quinoline Langmuir-Blodgett thin films for detection of volatile organic compounds with host-guest principles. <i>Analyst</i> , 2017, 142, 3689-3698.	3.5	41
10	Electrochemical Sensing of Hydrogen Peroxide Using Block Copolymer Templated Iron Oxide Nanopatterns. <i>Analytical Chemistry</i> , 2018, 90, 1122-1128.	6.5	41
11	Surface modification of glass beads with glutaraldehyde: Characterization and their adsorption property for metal ions. <i>Journal of Hazardous Materials</i> , 2009, 171, 594-600.	12.4	40
12	Immobilization of albumin on magnetite nanoparticles. <i>Materials Letters</i> , 2011, 65, 3499-3501.	2.6	37
13	Novel magnetite nanoparticle based on BODIPY as fluorescent hybrid material for Ag(I) detection in aqueous medium. <i>Talanta</i> , 2016, 153, 191-196.	5.5	37
14	A Novel Fluorescent Chemosensor for Cu(II) Ion: Click Synthesis of Dual-Bodipy Including the Triazole Groups and Bioimaging of Yeast Cells. <i>Journal of Fluorescence</i> , 2019, 29, 1321-1329.	2.5	36
15	Facilitated transport of Cr(VI) through a novel activated composite membrane containing Cyanex 923 as a carrier. <i>Journal of Membrane Science</i> , 2009, 337, 224-231.	8.2	34
16	A Novel Electrochemical Sensor Based on Metal Ion Infiltrated Block Copolymer Thin Films for Sensitive and Selective Determination of Dopamine. <i>ACS Applied Nano Materials</i> , 2019, 2, 7311-7318.	5.0	34
17	Fabrication of LB thin film of pillar[5]arene-2-amino-3-hydroxypyridine for the sensing of vapors. <i>Materials Letters</i> , 2020, 267, 127538.	2.6	31
18	Molecularly Functionalized Silicon Substrates for Orientation Control of the Microphase Separation of PS- <i>b</i> -PMMA and PS- <i>b</i> -PDMS Block Copolymer Systems. <i>Langmuir</i> , 2013, 29, 2809-2820.	3.5	30

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19	Haloalkanes and aromatic hydrocarbons sensing using Langmuir-Blodgett thin film of pillar[5]arene-biphenylcarboxylic acid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 565, 108-117.	4.7	30
20	Interaction of donepezil with human serum albumin on amine-modified magnetic nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 442, 139-145.	4.7	29
21	Preparation and gas sensing properties of Langmuir-Blodgett thin films of calix[n]arenes: Investigation of cavity effect. <i>Sensors and Actuators B: Chemical</i> , 2014, 195, 156-164.	7.8	29
22	Preparation of pillar[5]arene immobilized trypsin and its application in microwave-assisted digestion of Cytochrome c. <i>Materials Science and Engineering C</i> , 2019, 94, 886-893.	7.3	29
23	Fabrication of Langmuir-Blodgett thin films of calix[4]arenes and their gas sensing properties: Investigation of upper rim para substituent effect. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 502-511.	7.8	23
24	An electrochemical sensor based on a Co <sub>3</sub> O <sub>4</sub> -ERGO nanocomposite modified screen-printed electrode for detection of uric acid in artificial saliva. <i>Analytical Methods</i> , 2021, 14, 67-75.	2.7	22
25	Interaction Between Ketoconazole and Human Serum Albumin on Epoxy Modified Magnetic Nanoparticles for Drug Delivery. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 6522-6528.	0.9	21
26	Novel humic acid-bonded magnetite nanoparticles for protein immobilization. <i>Materials Science and Engineering C</i> , 2014, 42, 546-552.	7.3	21
27	Spectrofluorometric and thermal gravimetric study on binding interaction of thiabendazole with hemoglobin on epoxy-functionalized magnetic nanoparticles. <i>Materials Science and Engineering C</i> , 2015, 54, 43-49.	7.3	21
28	A sensitive amperometric detection of neurotransmitter acetylcholine using carbon dot-modified carbon paste electrode. <i>Biotechnology and Applied Biochemistry</i> , 2021, 68, 20-29.	3.1	19
29	Immobilization and characterization of hemoglobin on modified sporopollenin surfaces. <i>International Journal of Biological Macromolecules</i> , 2012, 50, 1346-1352.	7.5	17
30	Assessment of the cytotoxic and genotoxic potential of pillar[5]arene derivatives by <i>Allium cepa</i> roots and <i>Drosophila melanogaster</i> haemocytes. <i>Ecotoxicology and Environmental Safety</i> , 2020, 192, 110328.	6.0	17
31	Preparation of Langmuir-Blodgett thin films of calix[6]arenes and p-tert butyl group effect on their gas sensing properties. <i>Applied Surface Science</i> , 2015, 359, 364-371.	6.1	16
32	Fabrication of Thin Films of Phosphonated Calix[4]Arene Bearing Crown Ether and Their Gas Sensing Properties. <i>IEEE Sensors Journal</i> , 2019, 19, 838-845.	4.7	16
33	Magnetic nanoparticles-serum proteins bioconjugates for binding of irinotecan. <i>International Journal of Biological Macromolecules</i> , 2015, 73, 76-83.	7.5	15
34	Immobilization of albumin on indium-tin oxide (ITO) surface via isocyanate linkage. <i>Journal of Electroanalytical Chemistry</i> , 2009, 633, 228-234.	3.8	13
35	Synthesis and application of novel magnetite nanoparticle based azacrown ether for protein recognition. <i>Macromolecular Research</i> , 2013, 21, 1029-1035.	2.4	13
36	Interaction of L-myc oncogene in breast cancer with irinotecan onto functionalized magnetic nanoparticles. <i>Materials Letters</i> , 2013, 106, 8-10.	2.6	11

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37	Fluorescent labelling of DNA on superparamagnetic nanoparticles by a perylene bisimide derivative for cell imaging. <i>Materials Science and Engineering C</i> , 2015, 48, 86-93.	7.3	11
38	Electrochemical Detection of Epinephrine Based on a Screen-Printed Electrode Modified with NiO-ERGO Nanocomposite Film. <i>Electroanalysis</i> , 2021, 33, 2460-2468.	2.9	11
39	Combined voltammetric and spectroscopic investigation of binding interaction between nifedipine and human serum albumin on polyelectrolyte modified ITO electrode. <i>Electrochimica Acta</i> , 2013, 111, 535-542.	5.2	10
40	Investigation of environmentally volatile pollutants sensing using pillar[5]arene-based macrocycle Langmuir-Blodgett film. <i>Applied Physics A: Materials Science and Processing</i> , 2020, 126, 1.	2.3	10
41	A new BODIPY/nanoparticle/Ni affinity system for binding of cytochrome c. <i>Applied Surface Science</i> , 2015, 349, 811-816.	6.1	9
42	Recent progress in pillar[n]arene-based thin films on chemical sensor applications. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 2021, 100, 39-54.	1.6	9
43	Optical Properties and Swelling Behavior of Fe <sub>3</sub> O <sub>4</sub> Functionalized Graphene Oxide Composite Thin Film. <i>IEEE Sensors Journal</i> , 2017, 17, 1222-1229.	4.7	8
44	Synthesis of water soluble symmetric and asymmetric pillar[5]arene derivatives: Cytotoxicity, apoptosis and molecular docking studies. <i>Journal of Molecular Structure</i> , 2022, 1265, 133482.	3.6	7
45	An Aminopyridine Bearing Pillar[5]arene-Based QCM Sensor for Chemical Sensing Applications: Design, Experimental Characterization, Data Modeling, and Prediction. <i>IEEE Sensors Journal</i> , 2020, 20, 14732-14739.	4.7	6
46	Binding Affinity of Serum Proteins to Epoxy Modified Magnetite Nanoparticles. <i>Advanced Science Letters</i> , 2012, 17, 143-148.	0.2	6
47	Preparation and characterization of calix[6]arene Langmuir-Blodgett thin film. <i>Thin Solid Films</i> , 2012, 520, 6238-6242.	1.8	5
48	Synthesis and evaluation of anticancer effect of a novel molecule based-on pillar[5]arene including multi quinoline units. <i>Medicinal Chemistry Research</i> , 2020, 29, 1077-1083.	2.4	5
49	Fabrication of picoline amide-based calix[4]arene Langmuir-Blodgett thin film for volatile organic vapor sensing application. <i>Molecular Crystals and Liquid Crystals</i> , 2020, 710, 49-65.	0.9	5
50	Fabrication of albumin-micropatterned surfaces by colloidal microcontact printing technique. <i>RSC Advances</i> , 2013, 3, 10420.	3.6	4
51	Multi-Walled Carbon Nanotubes Influence on Gas Exchange, Redox Reaction and Antioxidant System in Zea mays Exposed to Excessive Copper. <i>Journal of Plant Growth Regulation</i> , 0, , 1.	5.1	2
52	Block Copolymer Templated WO <sub>3</sub> Surface Nanolines as Catalysts for Enhanced Epinephrine Sensing and the Oxygen Evolution Reaction. <i>ChemElectroChem</i> , 0, , .	3.4	1
53	Sensor application of pyridine modified calix[4]arene Langmuir-Blodgett thin film. <i>Optik</i> , 2022, 265, 169492.	2.9	1
54	Development of New Fluorescent Dyes by Using Amine Modified Nanoparticles for Immunostaining. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2016, 46, 1779-1786.	0.6	0

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55	Electrochemical H <sub>2</sub> O <sub>2</sub> sensor based on graphene oxide-iron oxide nanoparticles composite. , 2017, , .		0
56	Stability evaluation of environmentally volatile pollutants sensing devices by developing theoretical calculation and mathematical modeling. Sensors and Actuators A: Physical, 2022, 333, 113216.	4.1	0