Sara Mahshid

List of Publications by Year
in descending order

55 papers	1,964 citations	257357 24 h-index	289141 40 g-index
55 all docs	55 docs citations	55 times ranked	2645 citing authors

#	Article	IF	Citations
1	Fabrication and Characterization of Autonomously Selfâ€Healable and Stretchable Soft Microfluidics. Advanced Sustainable Systems, 2022, 6, 2100074.	2.7	6
2	Recent advancement in electrode materials and fabrication, microfluidic designs, and self-powered systems for wearable non-invasive electrochemical glucose monitoring. Applied Materials Today, 2022, 26, 101350.	2.3	15
3	A non-enzymatic photoelectrochemical sensor based on Co-Pi modified one-dimensional titanium oxide embedded microscale reactor. Biosensors and Bioelectronics: X, 2022, 11, 100157.	0.9	0
4	The potential application of electrochemical biosensors in the COVID-19 pandemic: A perspective on the rapid diagnostics of SARS-CoV-2. Biosensors and Bioelectronics, 2021, 176, 112905.	5.3	109
5	Plasmonic nanobowtiefluidic device for sensitive detection of glioma extracellular vesicles by Raman spectrometry. Lab on A Chip, 2021, 21, 855-866.	3.1	36
6	Gold Nano/Micro-Islands Overcome the Molecularly Imprinted Polymer Limitations to Achieve Ultrasensitive Protein Detection. ACS Sensors, 2021, 6, 797-807.	4.0	30
7	Nanofluidics for Simultaneous Size and Charge Profiling of Extracellular Vesicles. Nano Letters, 2021, 21, 4895-4902.	4.5	11
8	Nanobowtie Embedded Microfluidic Device for SERS Identification of Extracellular Vesicles from Synthetic Liposomes. , 2021, , .		1
9	Plasmonic-assisted electrochemical detection of hydrogen peroxide. , 2021, , .		0
10	Multimodal electrochemical and SERS platform for chlorfenapyr detection. Applied Surface Science, 2021, 566, 150617.	3.1	11
11	A nanostructured microfluidic device for plasmon-assisted electrochemical detection of hydrogen peroxide released from cancer cells. Nanoscale, 2021, 13, 14316-14329.	2.8	31
12	Are plasmonic optical biosensors ready for use in point-of-need applications?. Analyst, The, 2020, 145, 364-384.	1.7	123
13	Tunable Dielectrophoretic Traps for Extra-Cellular Vesicles*. , 2020, , .		0
14	An AgNP-deposited commercial electrochemistry test strip as a platform for urea detection. Scientific Reports, 2020, 10, 9527.	1.6	36
15	Nanopattern-Assisted Direct Growth of Peony-like 3D MoS₂/Au Composite for Nonenzymatic Photoelectrochemical Sensing. ACS Applied Materials & Interfaces, 2020, 12, 7411-7422.	4.0	49
16	Microscale reactor embedded with Graphene/hierarchical gold nanostructures for electrochemical sensing: application to the determination of dopamine. Mikrochimica Acta, 2020, 187, 90.	2.5	22
17	A Nanostructured Gold/Graphene Microfluidic Device for Direct and Plasmonic-Assisted Impedimetric Detection of Bacteria. ACS Applied Materials & Interfaces, 2020, 12, 23298-23310.	4.0	50
18	Hydrothermal Growth of Molybdenum Disulfide Composited with Electrodeposited Gold and Its Photoelectrochemical Properties. ECS Meeting Abstracts, 2020, MA2020-01, 2156-2156.	0.0	0

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19	(Invited) Nanosurface Fluidic Devices for Electrochemical Sensing and Biosensing. ECS Meeting Abstracts, 2020, MA2020-01, 2018-2018.	0.0	0
20	Deposition of Gold Nano-Micro Islands on Electrochemically Reduced Graphene Oxide to Use in Combination with Molecularly Imprinted Polymers. ECS Meeting Abstracts, 2020, MA2020-01, 2471-2471.	0.0	0
21	A Nanostructured Electrode for Photoelectrochemical Detection of Hydrogen Peroxide. ECS Meeting Abstracts, 2020, MA2020-01, 2189-2189.	0.0	0
22	Photoelectrochemical Bioanalyte Sensor Based on Engineered One-Dimensional Nanostructured Oxide. ECS Meeting Abstracts, 2020, MA2020-01, 2081-2081.	0.0	0
23	A review on recent advancements in electrochemical biosensing using carbonaceous nanomaterials. Mikrochimica Acta, 2019, 186, 773.	2.5	103
24	Electrochemical sensors and biosensors based on the use of polyaniline and its nanocomposites: a review on recent advances. Mikrochimica Acta, 2019, 186, 465.	2.5	125
25	Peptide-Mediated Electrochemical Steric Hindrance Assay for One-Step Detection of HIV Antibodies. Analytical Chemistry, 2019, 91, 4943-4947.	3.2	35
26	Transverse dielectrophoretic-based DNA nanoscale confinement. Scientific Reports, 2018, 8, 5981.	1.6	23
27	A Nanosurface Microfluidic Device for Capture and Detection of Bacteria. , 2018, , .		0
28	A Nanosurface Microfluidic Device for Capture and Detection of Bacteria. , 2018, , .		1
29	A nanofilter for fluidic devices by pillar-assisted self-assembly microparticles. Biomicrofluidics, 2018, 12, 064103.	1.2	9
30	Pathogenic Bacteria Detection: A Hierarchical 3D Nanostructured Microfluidic Device for Sensitive Detection of Pathogenic Bacteria (Small 35/2018). Small, 2018, 14, 1870159.	5.2	0
31	A Hierarchical 3D Nanostructured Microfluidic Device for Sensitive Detection of Pathogenic Bacteria. Small, 2018, 14, e1801893.	5.2	47
32	Mechanistic Control of the Growth of Three-Dimensional Gold Sensors. Journal of Physical Chemistry C, 2016, 120, 21123-21132.	1.5	46
33	Continuous Confinement Fluidics: Getting Lots of Molecules into Small Spaces with High Fidelity. Macromolecules, 2016, 49, 2853-2859.	2.2	23
34	Development of a platform for single cell genomics using convex lens-induced confinement. Lab on A Chip, 2015, 15, 3013-3020.	3.1	27
35	Experimental Evidence of Weak Excluded Volume Effects for Nanochannel Confined DNA. ACS Macro Letters, 2015, 4, 759-763.	2.3	43
36	Mixed confinement regimes during equilibrium confinement spectroscopy of DNA. Journal of Chemical Physics, 2014, 140, 214901.	1.2	43

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37	Convex lens-induced nanoscale templating. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 13295-13300.	3.3	38
38	Electrodeposition and electrocatalytic properties of Pt/Niâ€“Co nanowires for non-enzymatic glucose detection. Journal of Alloys and Compounds, 2013, 554, 169-176.	2.8	65
39	Room temperature synthesis of highly crystalline TiO2 nanoparticles. Materials Letters, 2013, 92, 287-290.	1.3	22
40	Sensitive determination of dopamine in the presence of uric acid and ascorbic acid using TiO2 nanotubes modified with Pd, Pt and Au nanoparticles. Analyst, The, 2011, 136, 2322.	1.7	104
41	Carbon-Pt Nanoparticles Modified TiO₂ Nanotubes for Simultaneous Detection of Dopamine and Uric Acid. Journal of Nanoscience and Nanotechnology, 2011, 11, 6668-6675.	0.9	10
42	Template-based electrodeposition of Pt/Ni nanowires and its catalytic activity towards glucose oxidation. Electrochimica Acta, 2011, 58, 551-555.	2.6	108
43	The Pt/Ni Modified TiO2 Nanotubes and its Catalytic Activity Toward Glucose. ECS Transactions, 2011, 35, 63-69.	0.3	0
44	Catalytic Activity of TiO2 Nanotubes Modified with Carbon and Pt Nanoparticles for Detection of Dopamine. ECS Transactions, 2011, 35, 53-62.	0.3	1
45	A Well-Dispersed Pt/Ni/TiO₂ Nanotubes Modified Electrode as an Amperometric Non-Enzymatic Glucose Biosensor. Sensor Letters, 2011, 9, 1598-1605.	0.4	9
46	EFFECT OF Si ANTIOXIDANT ON THE RATE OF OXIDATION OF CARBON IN MgOâ€“C REFRACTORY. International Journal of Engineering, Transactions B: Applications, 2011, 24, 357-376.	0.6	5
47	Self-Organized Titanium Oxide Nanotubes Prepared in Phosphate Electrolytes: Effect of Voltage and Fluorine Concentration. ECS Transactions, 2010, 28, 67-74.	0.3	5
48	Electrodeposition of Platinum Nanowires: Electrochemical Characterization. ECS Transactions, 2010, 28, 25-35.	0.3	3
49	Mixed-phase TiO2 nanoparticles preparation using solâ€“gel method. Journal of Alloys and Compounds, 2009, 478, 586-589.	2.8	83
50	Effect of brookite presence on nanocrystalline anatase – rutile phase transformation. International Journal of Nanotechnology, 2009, 6, 961.	0.1	7
51	Synthesis of TiO2 nanoparticles by hydrolysis and peptization of titanium isopropoxide solution. Journal of Materials Processing Technology, 2007, 189, 296-300.	3.1	310
52	Effect of Al Antioxidant on the Rate of Oxidation of Carbon in MgO?C Refractory. Journal of the American Ceramic Society, 2007, 90, 509-515.	1.9	57
53	Oxidation Mechanism of C in MgO-C Refractory Bricks. Journal of the American Ceramic Society, 2006, 89, 1308-1316.	1.9	75
54	Effect of ECAP on Physicochemical and Biological Properties of TiO2 Nanotubes Anodized on Commercially Pure Titanium. Metals and Materials International, 0, , 1.	1.8	5

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55	Enhanced Electrocatalytic Activity of TiO2 Nanotubes Modified with Pt and Pd Nanoparticles: Electro-Oxidation of Dopamine, Uric Acid and Ascorbic Acid. International Journal of Theoretical and Applied Nanotechnology, 0, , .	0.0	2