Maguy Abi Jaoude

List of Publications by Year
in descending order

49 papers	1,101 citations	361045 20 h-index	414034 32 g-index
50 all docs	50 docs citations	50 times ranked	1112 citing authors

#	Article	IF	Citations
1	State of the art of metal oxide memristor devices. Nanotechnology Reviews, 2016, 5, .	2.6	147
2	Design Aspects of Doped CeO₂ for Low-Temperature Catalytic CO Oxidation: Transient Kinetics and DFT Approach. ACS Applied Materials & Interfaces, 2021, 13, 22391-22415.	4.0	70
3	High-Flux, Antifouling Hydrophilized Ultrafiltration Membranes with Tunable Charge Density Combining Sulfonated Poly(ether sulfone) and Aminated Graphene Oxide Nanohybrid. ACS Applied Materials & Interfaces, 2020, 12, 1617-1627.	4.0	67
4	Cu, Sm co-doping effect on the CO oxidation activity of CeO2. A combined experimental and density functional study. Applied Surface Science, 2020, 521, 146305.	3.1	61
5	Morphology-dependent electrochemical performance of MnO2 nanostructures on graphene towards efficient capacitive deionization. Electrochimica Acta, 2020, 330, 135202.	2.6	55
6	Ultrastable plasmonic nanofluids in optimized direct absorption solar collectors. Energy Conversion and Management, 2019, 199, 112010.	4.4	51
7	Enhanced removal of aqueous phenol with polyimide ultrafiltration membranes embedded with deep eutectic solvent-coated nanosilica. Chemical Engineering Journal, 2021, 408, 128017.	6.6	43
8	MemSens: Memristor-Based Radiation Sensor. IEEE Sensors Journal, 2018, 18, 3198-3205.	2.4	41
9	MOMSense: Metal-Oxide-Metal Elementary Glucose Sensor. Scientific Reports, 2019, 9, 5524.	1.6	39
10	Cu-Ce-La-Ox as efficient CO oxidation catalysts: Effect of Cu content. Applied Surface Science, 2020, 505, 144474.	3.1	39
11	Bipolar Cu/HfO2/p++ Si Memristors by Sol-Gel Spin Coating Method and Their Application to Environmental Sensing. Scientific Reports, 2019, 9, 9983.	1.6	33
12	Sol-gel/drop-coated micro-thick TiO2 memristors for Î³-ray sensing. Materials Chemistry and Physics, 2016, 184, 72-81.	2.0	30
13	Capillary monolithic titania column for miniaturized liquid chromatography and extraction of organo-phosphorous compounds. Analytical and Bioanalytical Chemistry, 2011, 400, 1241-1249.	1.9	29
14	Activated Carbon Derived from Phoenix dactylifera (Palm Tree) and Decorated with MnO₂ Nanoparticles for Enhanced Hybrid Capacitive Deionization Electrodes. ChemistrySelect, 2020, 5, 3248-3256.	0.7	29
15	Graphene oxide: Nylon ECG sensors for wearable IoT healthcareâ€"nanomaterial and SoC interface. Analog Integrated Circuits and Signal Processing, 2018, 96, 253-260.	0.9	28
16	Tuning the activity of Cu-containing rare earth oxide catalysts for CO oxidation reaction: Cooling while heating paradigm in microwave-assisted synthesis. Materials Research Bulletin, 2018, 108, 142-150.	2.7	25
17	Chromatographic behavior of xanthines in aqueous normal phase chromatography using titania stationary phase. Journal of Chromatography A, 2011, 1218, 721-725.	1.8	24
18	Solventâ€Influenced Fragmentations in Freeâ€Standing Threeâ€Dimensional Covalent Organic Framework Membranes for Hydrophobicity Switching. Angewandte Chemie - International Edition, 2022, 61, .	7.2	24

#	Article	IF	Citations
19	Application of deep eutectic solvents in water treatment processes: A review. Journal of Water Process Engineering, 2022, 47, 102663.	2.6	23
20	Synthesis and properties of 1D Sm-doped CeO2 composite nanofibers fabricated using a coupled electrospinning and solâ€“gel methodology. Ceramics International, 2016, 42, 10734-10744.	2.3	20
21	Novel secret key generation techniques using memristor devices. AIP Advances, 2016, 6, .	0.6	20
22	Optimization of the single-step synthesis of hybrid C8 silica monoliths dedicated to nano-liquid chromatography and capillary electrochromatography. Journal of Chromatography A, 2008, 1209, 120-127.	1.8	19
23	Polyimide ultrafiltration membrane embedded with reline-functionalized nanosilica for the remediation of pharmaceuticals in water. Separation and Purification Technology, 2021, 266, 118585.	3.9	19
24	Improvement of chromatographic performances of in-situ synthesized hybrid C8 silica monoliths by reduction of structural radial heterogeneities. Journal of Chromatography A, 2009, 1216, 3857-3863.	1.8	18
25	Effects of top electrode material in hafnium-oxide-based memristive systems on highly-doped Si. Scientific Reports, 2020, 10, 19541.	1.6	14
26	Nano-architectural advancement of CeO2-driven catalysis via electrospinning. Surface and Coatings Technology, 2018, 350, 245-280.	2.2	12
27	Subthreshold Continuum Conductance Change in NbO Pt Memristor Interfaces. Journal of Physical Chemistry C, 2016, 120, 18971-18976.	1.5	11
28	Role of embedding choline chloride-urea deep eutectic solvent on biomass-derived porous activated carbon in its capacitive deionization performance. Desalination, 2022, 530, 115674.	4.0	11
29	Switching characteristics of microscale unipolar Pd/Hf/HfO 2 /Pd memristors. Microelectronic Engineering, 2018, 185-186, 35-42.	1.1	10
30	A mixed matrix polyimide ultrafiltration membrane for efficient removal of bentazon from water. Chemical Engineering Journal, 2022, 433, 134596.	6.6	10
31	CH4 valorisation reactions: A comparative thermodynamic analysis and their limitations. Fuel, 2022, 320, 123877.	3.4	10
32	Effect of the Compliance Current on the Retention Time of Cu/HfO2-Based Memristive Devices. Journal of Electronic Materials, 2021, 50, 4397-4406.	1.0	9
33	Novel microscale memristor with uniqueness property for securing communications. , 2016, , .		8
34	Silver/(sub-10 nm)hafnium-oxide-based resistive switching devices on silicon: characteristics and switching mechanism. Nanotechnology, 2020, 31, 165202.	1.3	8
35	Impact of vacuum on the resistive switching in HfO2-based conductive-bridge RAM with highly-doped silicon bottom electrode. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 271, 115267.	1.7	7
36	Resistive switching in sol-gel derived microscale memristors. , 2016, , .		6

#	Article	IF	Citations
37	Graphene oxide â€" Nylon ECG sensors for wearable IoT healthcare. , 2017, , .		6
38	High-Density ReRAM Crossbar with Selector Device for Sneak Path Reduction. , 2019, , .		6
39	Retention of Î² blockers on native titania stationary phase. Journal of Separation Science, 2011, 34, 1805-1810.	1.3	5
40	Separation of xanthines in hydro-organic and polar-organic elution modes on a titania stationary phase. Journal of Separation Science, 2014, 37, 536-542.	1.3	4
41	Novel hafnium oxide memristor device: Switching behaviour and size effect. , 2017, , .		4
42	A design of experiment approach to the solâ€"gel synthesis of titania monoliths for chromatographic applications. Analytical and Bioanalytical Chemistry, 2012, 403, 1145-1155.	1.9	2
43	Physics model of memristor devices with varying active materials. , 2016, , .		1
44	Nonenzymatic Glucose Sensor Using MIM Pt/CuO/Pt. , 2018, , .		1
45	Detection of some amino acids with modulation-doped and surface-nanoengineered GaAs Schottky P-I-N diodes. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2020, 38, 054002.	0.6	1
46	A Low-Cost, Nanowatt, Millimeter-Scale Memristive-Vacuum Sensor. IEEE Sensors Journal, 2022, 22, 6080-6087.	2.4	1
47	Insights into the Composite Scale Formation and Coprecipitation Behavior of CaSO4 and SrSO4 at different salinity level. Surfaces and Interfaces, 2021, 22, 100875.	1.5	0
48	Solvent Influenced Fragmentations in Freeâ€Standing Threeâ€Dimensional Covalent Organic Framework Membranes for Hydrophobicity Switching. Angewandte Chemie, 0, , .	1.6	0
49	Titelbild: Solventâ€Influenced Fragmentations in Freeâ€Standing Threeâ€Dimensional Covalent Organic Framework Membranes for Hydrophobicity Switching (Angew. Chem. 13/2022). Angewandte Chemie, 2022, 134, .	1.6	0