

Amine Achour

List of Publications by Year in descending order

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37
papers

989
citations

430874

18
h-index

434195

31
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38
all docs

38
docs citations

38
times ranked

1339
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrous RuO ₂ /carbon nanowalls hierarchical structures for all-solid-state ultrahigh-energy-density micro-supercapacitors. <i>Nano Energy</i> , 2014, 10, 288-294.	16.0	176
2	Titanium nitride films for micro-supercapacitors: Effect of surface chemistry and film morphology on the capacitance. <i>Journal of Power Sources</i> , 2015, 300, 525-532.	7.8	152
3	Electrodes based on nano-tree-like vanadium nitride and carbon nanotubes for micro-supercapacitors. <i>Journal of Materials Science and Technology</i> , 2018, 34, 976-982.	10.7	61
4	Plasma functionalization of carbon nanowalls and its effect on attachment of fibroblast-like cells. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 265203.	2.8	43
5	Correlation between surface topography, optical band gaps and crystalline properties of engineered AZO and CAZO thin films. <i>Chemical Physics Letters</i> , 2019, 719, 78-90.	2.6	38
6	Achieving on chip micro-supercapacitors based on CrN deposited by bipolar magnetron sputtering at glancing angle. <i>Electrochimica Acta</i> , 2019, 324, 134890.	5.2	35
7	ZnO/Carbon nanowalls shell/core nanostructures as electrodes for supercapacitors. <i>Applied Surface Science</i> , 2019, 481, 926-932.	6.1	35
8	Micromorphology investigation of GaAs solar cells: case study on statistical surface roughness parameters. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 15370-15379.	2.2	33
9	Application of Mie theory and fractal models to determine the optical and surface roughness of Ag/Cu thin films. <i>Optical and Quantum Electronics</i> , 2017, 49, 1.	3.3	33
10	Microstructure, fractal geometry and dye-sensitized solar cells performance of CdS/TiO ₂ nanostructures. <i>Journal of Electroanalytical Chemistry</i> , 2018, 830-831, 80-87.	3.8	32
11	New Insights into SnO ₂ /Al ₂ O ₃ , Ni/Al ₂ O ₃ , and SnO ₂ /Ni/Al ₂ O ₃ Composite Films for CO Adsorption: Building a Bridge between Microstructures and Adsorption Properties. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3692-3701.	3.1	28
12	Microstructure and optical properties of cobalt-carbon nanocomposites prepared by RF-sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , 2015, 26, 5964-5969.	2.2	27
13	Micromorphology and fractal analysis of nickel-carbon composite thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2016, 27, 11425-11431.	2.2	24
14	Optical and electronic properties of pure and fully hydrogenated SiC and GeC nanosheets: first-principles study. <i>Optical and Quantum Electronics</i> , 2018, 50, 1.	3.3	23
15	The effects of deposition time on surface morphology, structural, electrical and optical properties of sputtered Ag-Cu thin films. <i>European Physical Journal Plus</i> , 2016, 131, 1.	2.6	22
16	Reactive sputtering of vanadium nitride thin films as pseudo-capacitor electrodes for high areal capacitance and cyclic stability. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 13125-13131.	2.2	22
17	Micromorphology analysis of TiO ₂ thin films by atomic force microscopy images: The influence of postannealing. <i>Microscopy Research and Technique</i> , 2020, 83, 457-463.	2.2	20
18	Catalytic growth of multi-walled carbon nanotubes using NiFe ₂ O ₄ nanoparticles and incorporation into epoxy matrix for enhanced mechanical properties. <i>Journal of Polymer Engineering</i> , 2016, 36, 53-64.	1.4	18

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19	How morphological surface parameters are correlated with electrocatalytic performance of cobalt-based nanostructures. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 57, 97-103.	5.8	18
20	Orange/Red Photoluminescence Enhancement Upon SF6 Plasma Treatment of Vertically Aligned ZnO Nanorods. <i>Nanomaterials</i> , 2019, 9, 794.	4.1	18
21	Study of the microstructure and surface morphology of silver nanolayers obtained by ion-beam deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 15293-15301.	2.2	15
22	Microstructural Evaluation of Inductively Sintered Aluminum Matrix Nanocomposites Reinforced with Silicon Carbide and/or Graphene Nanoplatelets for Tribological Applications. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 2963-2976.	2.2	13
23	Electrochemical Stability Enhancement in Reactive Magnetron Sputtered VN Films upon Annealing Treatment. <i>Coatings</i> , 2019, 9, 72.	2.6	11
24	Averaged power spectrum density, fractal and multifractal spectra of Au nano-particles deposited onto annealed TiO2 thin films. <i>Optical and Quantum Electronics</i> , 2020, 52, 1.	3.3	11
25	Influence of surface chemistry and point defects in TiN based electrodes on electrochemical capacitive storage activity. <i>Scripta Materialia</i> , 2018, 153, 59-62.	5.2	10
26	MnOx thin film based electrodes: Role of surface point defects and structure towards extreme enhancement in specific capacitance. <i>Materials Chemistry and Physics</i> , 2020, 242, 122487.	4.0	10
27	SOLUTION PROCESSING OF CADMIUM SULFIDE BUFFER LAYER AND ALUMINUM-DOPED ZINC OXIDE WINDOW LAYER FOR THIN FILMS SOLAR CELLS. <i>Surface Review and Letters</i> , 2014, 21, 1450059.	1.1	9
28	Studies of the micromorphology of sputtered TiN thin films by autocorrelation techniques. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	9
29	High performance of 3D silicon nanowires array@CrN for electrochemical capacitors. <i>Nanotechnology</i> , 2020, 31, 035407.	2.6	8
30	Magnetoresistance of nanocomposite copper/carbon thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 4713-4718.	2.2	7
31	Assembled manganese and its nanostructured manganese dioxide rich electrodes for a new primary battery. <i>Materials Chemistry and Physics</i> , 2020, 244, 122717.	4.0	5
32	Fractal Nature of Nanocomposite Thin Films with Co NPs in a-C:H Matrix. <i>Silicon</i> , 2018, 10, 675-680.	3.3	4
33	Low-pressure plasma process for the dry synthesis of cactus-like Au-TiO2 nanocatalysts for toluene degradation. <i>Applied Surface Science</i> , 2022, 571, 151313.	6.1	4
34	Metal/Carbon Hybrid Nanostructures Produced from Plasma-Enhanced Chemical Vapor Deposition over Nafion-Supported Electrochemically Deposited Cobalt Nanoparticles. <i>Materials</i> , 2018, 11, 687.	2.9	3
35	The effect of zinc shape on its corrosion mitigation as an anode in aqueous Zn/MnO2 battery. <i>Journal of Electroanalytical Chemistry</i> , 2021, 886, 115140.	3.8	3
36	PtxCuy@TiO2 nanoparticles by low-pressure plasma synthesis. <i>Materials Letters</i> , 2021, 291, 129576.	2.6	2

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37	Corrosion attenuation of zinc electrode in Zn ²⁺ /MnO ₂ battery by shielding effect in an aqueous ammonium chloride electrolyte. European Physical Journal Plus, 2021, 136, 1.	2.6	1