

# Amine Achour

## List of Publications by Year in descending order

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37  
papers

989  
citations

430874

18  
h-index

434195

31  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1339  
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-pressure plasma process for the dry synthesis of cactus-like Au-TiO <sub>2</sub> nanocatalysts for toluene degradation. Applied Surface Science, 2022, 571, 151313.	6.1	4
2	The effect of zinc shape on its corrosion mitigation as an anode in aqueous Zn/MnO <sub>2</sub> battery. Journal of Electroanalytical Chemistry, 2021, 886, 115140.	3.8	3
3	Corrosion attenuation of zinc electrode in Zn <sup>2+</sup> /MnO <sub>2</sub> battery by shielding effect in an aqueous ammonium chloride electrolyte. European Physical Journal Plus, 2021, 136, 1.	2.6	1
4	PtxCuy@TiO <sub>2</sub> nanoparticles by low-pressure plasma synthesis. Materials Letters, 2021, 291, 129576.	2.6	2
5	High performance of 3D silicon nanowires array@CrN for electrochemical capacitors. Nanotechnology, 2020, 31, 035407.	2.6	8
6	Micromorphology analysis of TiO <sub>2</sub> thin films by atomic force microscopy images: The influence of postannealing. Microscopy Research and Technique, 2020, 83, 457-463.	2.2	20
7	MnOx thin film based electrodes: Role of surface point defects and structure towards extreme enhancement in specific capacitance. Materials Chemistry and Physics, 2020, 242, 122487.	4.0	10
8	Averaged power spectrum density, fractal and multifractal spectra of Au nano-particles deposited onto annealed TiO <sub>2</sub> thin films. Optical and Quantum Electronics, 2020, 52, 1.	3.3	11
9	New Insights into SnO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> , Ni/Al <sub>2</sub> O <sub>3</sub> , and SnO <sub>2</sub> /Ni/Al <sub>2</sub> O <sub>3</sub> Composite Films for CO Adsorption: Building a Bridge between Microstructures and Adsorption Properties. Journal of Physical Chemistry C, 2020, 124, 3692-3701.	3.1	28
10	Assembled manganese and its nanostructured manganese dioxide rich electrodes for a new primary battery. Materials Chemistry and Physics, 2020, 244, 122717.	4.0	5
11	Achieving on chip micro-supercapacitors based on CrN deposited by bipolar magnetron sputtering at glancing angle. Electrochimica Acta, 2019, 324, 134890.	5.2	35
12	Electrochemical Stability Enhancement in Reactive Magnetron Sputtered VN Films upon Annealing Treatment. Coatings, 2019, 9, 72.	2.6	11
13	Orange/Red Photoluminescence Enhancement Upon SF <sub>6</sub> Plasma Treatment of Vertically Aligned ZnO Nanorods. Nanomaterials, 2019, 9, 794.	4.1	18
14	ZnO/Carbon nanowalls shell/core nanostructures as electrodes for supercapacitors. Applied Surface Science, 2019, 481, 926-932.	6.1	35
15	Correlation between surface topography, optical band gaps and crystalline properties of engineered AZO and CAZO thin films. Chemical Physics Letters, 2019, 719, 78-90.	2.6	38
16	Microstructural Evaluation of Inductively Sintered Aluminum Matrix Nanocomposites Reinforced with Silicon Carbide and/or Graphene Nanoplatelets for Tribological Applications. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 2963-2976.	2.2	13
17	Influence of surface chemistry and point defects in TiN based electrodes on electrochemical capacitive storage activity. Scripta Materialia, 2018, 153, 59-62.	5.2	10
18	Fractal Nature of Nanocomposite Thin Films with Co NPs in a-C:H Matrix. Silicon, 2018, 10, 675-680.	3.3	4

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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	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
21	Microstructure, fractal geometry and dye-sensitized solar cells performance of CdS/TiO <sub>2</sub> nanostructures. <i>Journal of Electroanalytical Chemistry</i> , 2018, 830-831, 80-87.	3.8	32
22	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
23	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
24	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
25	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
26	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
27	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
28	Magnetoresistance of nanocomposite copper/carbon thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2017, 28, 4713-4718.	2.2	7
29	Studies of the micromorphology of sputtered TiN thin films by autocorrelation techniques. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	9
30	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
31	Catalytic growth of multi-walled carbon nanotubes using NiFe <sub>2</sub> O <sub>4</sub> nanoparticles and incorporation into epoxy matrix for enhanced mechanical properties. <i>Journal of Polymer Engineering</i> , 2016, 36, 53-64.	1.4	18
32	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
33	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
34	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
35	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
36	Hydrous RuO <sub>2</sub> /carbon nanowalls hierarchical structures for all-solid-state ultrahigh-energy-density micro-supercapacitors. <i>Nano Energy</i> , 2014, 10, 288-294.	16.0	176

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37	Plasma functionalization of carbon nanowalls and its effect on attachment of fibroblast-like cells. Journal Physics D: Applied Physics, 2014, 47, 265203.	2.8	43