

# My Ali El Khakani

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,229  
citations

394286

19  
h-index

377752

34  
g-index

50  
all docs

50  
docs citations

50  
times ranked

2122  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultraviolet-Assisted Direct-Write Fabrication of Carbon Nanotube/Polymer Nanocomposite Microcoils. <i>Advanced Materials</i> , 2010, 22, 592-596.	11.1	175
2	Tuning the Charge-Transfer Property of PbS-Quantum Dot/TiO <sub>2</sub> -Nanobelt Nanohybrids via Quantum Confinement. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 1030-1035.	2.1	125
3	Controlled Fabrication of PbS Quantum-Dot/Carbon-Nanotube Nanoarchitecture and its Significant Contribution to Near-Infrared Photon-to-Current Conversion. <i>Advanced Functional Materials</i> , 2011, 21, 4010-4018.	7.8	84
4	Reconstructing the energy band electronic structure of pulsed laser deposited CZTS thin films intended for solar cell absorber applications. <i>Applied Surface Science</i> , 2017, 396, 1562-1570.	3.1	72
5	Probing the Electronic Surface Properties and Bandgap Narrowing of in situ N, W, and (W,N) Doped Magnetron-Sputtered TiO <sub>2</sub> Films Intended for Electro-Photocatalytic Applications. <i>Journal of Physical Chemistry C</i> , 2016, 120, 631-638.	1.5	54
6	Electrochemical degradation of chlortetracycline using N-doped Ti/TiO <sub>2</sub> photoanode under sunlight irradiations. <i>Water Research</i> , 2013, 47, 6801-6810.	5.3	50
7	Enhanced photocatalytic activities of silicon nanowires/graphene oxide nanocomposite: Effect of etching parameters. <i>Journal of Environmental Sciences</i> , 2021, 101, 123-134.	3.2	39
8	Towards high efficiency air-processed near-infrared responsive photovoltaics: bulk heterojunction solar cells based on PbS/CdS core-shell quantum dots and TiO <sub>2</sub> nanorod arrays. <i>Nanoscale</i> , 2015, 7, 10039-10049.	2.8	38
9	Recent Progress in the Synthesis of MoS <sub>2</sub> Thin Films for Sensing, Photovoltaic and Plasmonic Applications: A Review. <i>Materials</i> , 2021, 14, 3283.	1.3	38
10	Preparation and mechanical characterization of laser ablated single-walled carbon-nanotubes/polyurethane nanocomposite microbeams. <i>Composites Science and Technology</i> , 2010, 70, 518-524.	3.8	34
11	Reinforcing epoxy nanocomposites with functionalized carbon nanotubes via biotin-streptavidin interactions. <i>Composites Science and Technology</i> , 2012, 72, 1387-1395.	3.8	31
12	Enhanced physical and electrochemical properties of nanostructured carbon nanotubes coated microfibrinous carbon paper. <i>Chemical Physics Letters</i> , 2007, 441, 88-93.	1.2	29
13	Ultra-sensitive and fast optical detection of the spike protein of the SARS-CoV-2 using AgNPs/SiNWs nanohybrid based sensors. <i>Surfaces and Interfaces</i> , 2021, 27, 101454.	1.5	27
14	Carbon nanohorns-coated microfibers for use as free-standing electrodes for electrochemical power sources. <i>Electrochemistry Communications</i> , 2009, 11, 862-866.	2.3	26
15	Ag nanoparticle-decorated single wall carbon nanotube films for photovoltaic applications. <i>Materials for Renewable and Sustainable Energy</i> , 2016, 5, 1.	1.5	24
16	Multiple exciton generation induced enhancement of the photoresponse of pulsed-laser-ablation synthesized single-wall-carbon-nanotube/PbS-quantum-dots nanohybrids. <i>Scientific Reports</i> , 2016, 6, 20083.	1.6	23
17	Field emission properties of graphenated multi-wall carbon nanotubes grown by plasma enhanced chemical vapour deposition. <i>Carbon</i> , 2016, 98, 259-266.	5.4	22
18	Electrochemical treatment of domestic wastewater using boron-doped diamond and nanostructured amorphous carbon electrodes. <i>Environmental Science and Pollution Research</i> , 2014, 21, 6578-6589.	2.7	20

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19	Hydrogen-assisted pulsed KrF-laser irradiation for the in situ photoreduction of graphene oxide films. <i>Carbon</i> , 2014, 77, 857-867.	5.4	20
20	Pulsed-laser-ablation based nanodecoration of multi-wall-carbon nanotubes by Co-Ni nanoparticles for dye-sensitized solar cell counter electrode applications. <i>Materials for Renewable and Sustainable Energy</i> , 2017, 6, 1.	1.5	20
21	Probing the electronic structure of carbon nanotubes by nanoscale spectroscopy. <i>Nanoscale</i> , 2010, 2, 1611.	2.8	19
22	Clean electrochemical deposition of calcium carbonate to prevent scale formation in cooling water systems. <i>Environmental Chemistry Letters</i> , 2016, 14, 507-514.	8.3	19
23	Investigation of the plasmonic effect in air-processed PbS/CdS core-shell quantum dot based solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13071-13080.	5.2	18
24	Photoconversion Optimization of Pulsed-Laser-Deposited p-CZTS/n-Si-Nanowires Heterojunction-Based Photovoltaic Devices. <i>Nanomaterials</i> , 2020, 10, 1393.	1.9	18
25	Elucidating the local interfacial structure of highly photoresponsive carbon nanotubes/PbS-QDs based nanohybrids grown by pulsed laser deposition. <i>Carbon</i> , 2016, 96, 145-152.	5.4	15
26	Photo-electrocatalytic oxidation of atrazine using sputtered deposited TiO <sub>2</sub> : WN photoanodes under UV/visible light. <i>Catalysis Today</i> , 2020, 340, 323-333.	2.2	15
27	Binderless Nanothin Catalyst Layers for Next Generation of Micro-Fuel Cells: Concept, Fabrication, Results and Prospective. <i>Journal of the Electrochemical Society</i> , 2012, 159, B331-B339.	1.3	13
28	Statistical optimization of electrochemical oxidation of ethylene glycol using response surface methodology. <i>Chemical Engineering Research and Design</i> , 2017, 105, 12-20.	2.7	13
29	Micro-infiltration of three-dimensional porous networks with carbon nanotube-based nanocomposite for material design. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 1910-1919.	3.8	12
30	PbS-quantum-dots/double-wall-carbon-nanotubes nanohybrid based photodetectors with extremely fast response and high responsivity. <i>Materials Today Energy</i> , 2020, 16, 100378.	2.5	12
31	Fabrication of highly oriented 1D SiNW arrays/Au for femto molar level detection of H1N1 protein. <i>Materials Letters</i> , 2021, 300, 130184.	1.3	12
32	Removal of atrazine by photoelectrocatalytic process under sunlight using WN-codoped TiO <sub>2</sub> photoanode. <i>Journal of Applied Electrochemistry</i> , 2018, 48, 1353-1361.	1.5	11
33	Electrochemical behavior of Mg-Ni-Ti thin films grown by pulsed laser deposition. <i>Journal of Alloys and Compounds</i> , 2003, 358, 126-132.	2.8	10
34	Synthesis, Characterization, and Electrocatalytic Properties of Ultra Highly Densely Packed Carbon Sub-Micrometer Sphere Chains and Sheathed Carbon Microfiber Composites. <i>Journal of Physical Chemistry C</i> , 2010, 114, 1885-1891.	1.5	10
35	Nontrivial role of carbon nanofibers morphology in binderless Pt nanocatalyst supported electrode. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 4682-4688.	3.8	9
36	Enhanced visible-light-photoconversion efficiency of TiO <sub>2</sub> nanotubes decorated by pulsed laser deposited CoNi nanoparticles. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 28656-28667.	3.8	9

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37	Optimizing Dye Adsorption in Graphene-TiO <sub>2</sub> Photoanodes for the Enhancement of Photoconversion Efficiency of DSSC Devices. IEEE Journal of Photovoltaics, 2019, 9, 1240-1248.	1.5	9
38	Photoelectrocatalytic bleaching of p-nitrosodimethylaniline using Ti/TiO <sub>2</sub> nanostructured electrodes deposited by means of a pulsed laser deposition process. Journal of Applied Electrochemistry, 2013, 43, 467-479.	1.5	7
39	Structural and photoluminescence properties of silicon nanowires extracted by means of a centrifugation process from plasma torch synthesized silicon nanopowder. Nanotechnology, 2017, 28, 285702.	1.3	7
40	Photocatalytic Activity of Silicon Nanowires Decorated with PbS Nanoparticles Deposited by Pulsed Laser Deposition for Efficient Wastewater Treatment. Materials, 2022, 15, 4970.	1.3	6
41	Fast synthesis of ZnO nanostructures by laser-induced chemical liquid deposition. Applied Surface Science, 2009, 255, 5359-5362.	3.1	5
42	Formation of silicon nanocrystal chains induced via Rayleigh instability in ultrathin Si/SiO <sub>2</sub> core/shell nanowires synthesized by an inductively coupled plasma torch process. JPhys Materials, 2019, 2, 015001.	1.8	5
43	Effect of the Helium Background Gas Pressure on the Structural and Optoelectronic Properties of Pulsed-Laser-Deposited PbS Thin Films. Nanomaterials, 2021, 11, 1254.	1.9	5
44	Substrate temperature optimization of pulsed-laser-deposited and in-situ Zn-supplemented-CZTS films and their integration into photovoltaic devices. Journal of Alloys and Compounds, 2022, 893, 162292.	2.8	5
45	Influence of solution parameters for the fast growth of ZnO nanostructures by laser-induced chemical liquid deposition. Applied Physics A: Materials Science and Processing, 2009, 94, 819-829.	1.1	3
46	Self-assembly of silicon nanowires studied by advanced transmission electron microscopy. Beilstein Journal of Nanotechnology, 2017, 8, 440-445.	1.5	3
47	High-temperature nitrogen annealing induced bonding states and photoluminescence changes in inductively coupled plasma torch synthesized silicon nanostructures. Journal of Applied Physics, 2020, 128, .	1.1	3
48	Capacity retention improvement of LiCoO <sub>2</sub> cathodes via their laser-ablation-based nanodecoration by BaTiO <sub>3</sub> nanoparticles. Journal of Applied Physics, 2022, 131, .	1.1	3
49	Formation of Hybrid Silicon Nanostructures via Capillary Instability Triggered in Inductively-Coupled-Plasma Torch Synthesized Ultra-Thin Silicon Nanowires. Physica Status Solidi (B): Basic Research, 2019, 256, 1800620.	0.7	2
50	Ultrafast Carrier Relaxation Dynamics in Quantum Confined Non-Isotropic Silicon Nanostructures Synthesized by an Inductively Coupled Plasma Process. Materials, 2020, 13, 4267.	1.3	0