

Nader Shehata

List of Publications by Year in descending order

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53
papers

659
citations

623188

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676716

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all docs

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docs citations

55
times ranked

821
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of oxygen vacancies and Ce ³⁺ concentrations in doped ceria nanoparticles via the selection of lanthanide element. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	92
2	Reduced erbium-doped ceria nanoparticles: one nano-host applicable for simultaneous optical down- and up-conversions. <i>Nanoscale Research Letters</i> , 2014, 9, 231.	3.1	33
3	Polyvinylidene Difluoride Piezoelectric Electrospun Nanofibers: Review in Synthesis, Fabrication, Characterizations, and Applications. <i>Journal of Nanomaterials</i> , 2018, 2018, 1-12.	1.5	31
4	Static-Aligned Piezoelectric Poly (Vinylidene Fluoride) Electrospun Nanofibers/MWCNT Composite Membrane: Facile Method. <i>Polymers</i> , 2018, 10, 965.	2.0	28
5	Efficiency Enhancement of Perovskite Solar Cells with Plasmonic Nanoparticles: A Simulation Study. <i>Materials</i> , 2018, 11, 1626.	1.3	27
6	Piezoelastic PVDF/TPU Nanofibrous Composite Membrane: Fabrication and Characterization. <i>Polymers</i> , 2019, 11, 1634.	2.0	26
7	Lanthanide-doped ceria nanoparticles as fluorescence-quenching probes for dissolved oxygen. <i>Sensors and Actuators B: Chemical</i> , 2013, 183, 179-186.	4.0	24
8	Enhanced Erbium-Doped Ceria Nanostructure Coating to Improve Solar Cell Performance. <i>Materials</i> , 2015, 8, 7663-7672.	1.3	23
9	Embedded Ceria Nanoparticles in Crosslinked PVA Electrospun Nanofibers as Optical Sensors for Radicals. <i>Sensors</i> , 2016, 16, 1371.	2.1	22
10	Solution Blow Spinning of Polyvinylidene Fluoride Based Fibers for Energy Harvesting Applications: A Review. <i>Polymers</i> , 2020, 12, 1304.	2.0	22
11	Acoustic Energy Harvesting and Sensing via Electrospun PVDF Nanofiber Membrane. <i>Sensors</i> , 2020, 20, 3111.	2.1	19
12	Nano-Enriched and Autonomous Sensing Framework for Dissolved Oxygen. <i>Sensors</i> , 2015, 15, 20193-20203.	2.1	16
13	Flexible paper-based wideband antenna for compact-size IoT devices. , 2017, , .		16
14	Stretchable nanofibers of polyvinylidene fluoride (PVDF)/thermoplastic polyurethane (TPU) nanocomposite to support piezoelectric response via mechanical elasticity. <i>Scientific Reports</i> , 2022, 12, 8335.	1.6	16
15	Investigation of Conical Spinneret in Generating More Dense and Compact Electrospun Nanofibers. <i>Polymers</i> , 2018, 10, 12.	2.0	15
16	Hybrid Nanofibrous Membranes as a Promising Functional Layer for Personal Protection Equipment: Manufacturing and Antiviral/Antibacterial Assessments. <i>Polymers</i> , 2021, 13, 1776.	2.0	15
17	Characteristics and 3D formation of PVA and PEO electrospun nanofibers with embedded urea. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	1.3	14
18	Piezoresponse, Mechanical, and Electrical Characteristics of Synthetic Spider Silk Nanofibers. <i>Nanomaterials</i> , 2018, 8, 585.	1.9	12

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19	Perovskite Solar Cell with Added Gold/Silver Nanoparticles: Enhanced Optical and Electrical Characteristics. <i>Energies</i> , 2020, 13, 3854.	1.6	12
20	Solution Blow Spinning of High-Performance Submicron Polyvinylidene Fluoride Fibres: Computational Fluid Mechanics Modelling and Experimental Results. <i>Polymers</i> , 2020, 12, 1140.	2.0	12
21	Fluorescent Nanocomposite of Embedded Ceria Nanoparticles in Crosslinked PVA Electrospun Nanofibers. <i>Nanomaterials</i> , 2016, 6, 102.	1.9	11
22	Biodegradable Nanofibrous Membranes for Medical and Personal Protection Applications: Manufacturing, Anti-COVID-19 and Anti-Multidrug Resistant Bacteria Evaluation. <i>Materials</i> , 2021, 14, 3862.	1.3	11
23	Elastic Nanofibrous Membranes for Medical and Personal Protection Applications: Manufacturing, Anti-COVID-19, and Anti-Colistin Resistant Bacteria Evaluation. <i>Polymers</i> , 2021, 13, 3987.	2.0	11
24	Study of Fluorescence Quenching in Aluminum-Doped Ceria Nanoparticles: Potential Molecular Probe for Dissolved Oxygen. <i>Journal of Fluorescence</i> , 2013, 23, 527-532.	1.3	10
25	Optical fluorescent spider silk electrospun nanofibers with embedded cerium oxide nanoparticles. <i>Journal of Nanophotonics</i> , 2018, 12, 1.	0.4	10
26	Fluorescence quenching in ceria nanoparticles: dissolved oxygen molecular probe with relatively temperature insensitive Stern-Volmer constant up to 50°C. <i>Journal of Nanophotonics</i> , 2012, 6, 063529.	0.4	9
27	Improved Electrical Conductivity of Carbon/Polyvinyl Alcohol Electrospun Nanofibers. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-5.	1.5	9
28	Solution blow spinning of piezoelectric nanofiber mat for detecting mechanical and acoustic signals. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51322.	1.3	9
29	Efficiency improvement of up-conversion process of plasmonic-enhanced Er-doped-NaYF ₄ nanoparticles under IR excitation. <i>Optics Express</i> , 2018, 26, 25492.	1.7	9
30	Antibacterial Synergism of Electrospun Nanofiber Mats Functioned with Silver Nanoparticles and Pulsed Electromagnetic Waves. <i>Polymers</i> , 2021, 13, 277.	2.0	8
31	Enhancement of Nano-Biopolymer Antibacterial Activity by Pulsed Electric Fields. <i>Polymers</i> , 2021, 13, 1869.	2.0	8
32	Parametric study of up-conversion efficiency in Er-doped ceria nanoparticles under 780 nm excitation. <i>Journal of Luminescence</i> , 2016, 176, 372-380.	1.5	7
33	Parametric Study of Up-Conversion Efficiency in Er-Doped Lanthanide Hosts Under 780 nm/980 nm Excitation Wavelengths. <i>Journal of Electronic Materials</i> , 2016, 45, 2732-2744.	1.0	7
34	Impact of Electro-Magneto Concave Collector on the Characterizations of Electrospun Nanofibers. <i>Journal of Electronic Materials</i> , 2018, 47, 4772-4779.	1.0	7
35	In-Situ Gold-Ceria Nanoparticles: Superior Optical Fluorescence Quenching Sensor for Dissolved Oxygen. <i>Nanomaterials</i> , 2020, 10, 314.	1.9	7
36	Studying the activity of antituberculosis drugs inside electrospun polyvinyl alcohol, polyethylene oxide, and polycaprolacton nanofibers. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 4009-4016.	2.1	6

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37	Electrospun PVA Polymer Embedded with Ceria Nanoparticles as Silicon Solar Cells Rear Surface Coaters for Efficiency Improvement. <i>Polymers</i> , 2018, 10, 609.	2.0	6
38	Plasmonic-Ceria Nanoparticles as Fluorescence Intensity and Lifetime Quenching Optical Sensor. <i>Sensors</i> , 2018, 18, 2818.	2.1	6
39	Fluorescent Nanocomposite of Embedded Ceria Nanoparticles in Electrospun Chitosan Nanofibers. <i>Journal of Fluorescence</i> , 2017, 27, 767-772.	1.3	5
40	Gold/QDs-Embedded-Ceria Nanoparticles: Optical Fluorescence Enhancement as a Quenching Sensor. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1236.	1.3	5
41	The Effect of Different AR Nanostructures on the Optical Performance of Organic-Inorganic Halide Perovskite Semiconductor Solar Cell. <i>Plasmonics</i> , 2022, 17, 581-595.	1.8	5
42	Dissolved oxygen sensing based on fluorescence quenching of ceria nanoparticles. <i>Proceedings of SPIE</i> , 2012, , .	0.8	3
43	Developing optical up-conversion process via embedded silver nanostructures. <i>Journal of Luminescence</i> , 2022, 244, 118717.	1.5	3
44	System-Aware Smart Network Management for Nano-Enriched Water Quality Monitoring. <i>Journal of Sensors</i> , 2016, 2016, 1-13.	0.6	2
45	Optical sensing of peroxide using ceria nanoparticles via fluorescence quenching technique. <i>Journal of Nanophotonics</i> , 2016, 10, 036002.	0.4	2
46	Study of Air Pressure and Velocity for Solution Blow Spinning of Polyvinylidene Fluoride Nanofibres. <i>Processes</i> , 2021, 9, 1014.	1.3	2
47	Decay Rates of Plasmonic Elliptical Nanostructures via Effective Medium Theory. <i>Nanomaterials</i> , 2021, 11, 1928.	1.9	2
48	Lanthanide-Doped Ceria Nanoparticles as Backside Coaters to Improve Silicon Solar Cell Efficiency. <i>Nanomaterials</i> , 2018, 8, 357.	1.9	1
49	Fluorescence intensity and lifetime quenching of ceria nanoparticles as optical sensor for tiny metallic particles. <i>Journal of Nanophotonics</i> , 2018, 12, 1.	0.4	1
50	Plasmonic-ceria nanoparticles for automated optical fluorescence-quenching of dissolved oxygen. , 2018, , .		1
51	Cognitive Band Manipulations using Twistable Paper-based Antenna for IoT Applications. , 2018, , .		0
52	Hybrid Intelligence Nano-enriched Sensing and Management System for Efficient Water-Quality Monitoring. <i>Lecture Notes in Networks and Systems</i> , 2018, , 584-604.	0.5	0
53	Temperature impact on upconversion efficiency and luminescence of Erbium-doped ceria-plasmonic nanostructure. , 2019, , .		0