

# Tamil Selvan Sakthivel

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

1,338  
citations

361045

20  
h-index

360668

35  
g-index

47  
all docs

47  
docs citations

47  
times ranked

1836  
citing authors

#	ARTICLE	IF	CITATIONS
1	Untangling the biological effects of cerium oxide nanoparticles: the role of surface valence states. <i>Scientific Reports</i> , 2015, 5, 15613.	1.6	227
2	Scalable ternary hierarchical microspheres composed of PANI/ rGO/CeO <sub>2</sub> for high performance supercapacitor applications. <i>Carbon</i> , 2019, 151, 192-202.	5.4	107
3	Ultra-high arsenic adsorption by graphene oxide iron nanohybrid: Removal mechanisms and potential applications. <i>Chemosphere</i> , 2020, 253, 126702.	4.2	81
4	Engineered defects in cerium oxides: tuning chemical reactivity for biomedical, environmental, & applications. <i>Nanoscale</i> , 2020, 12, 6879-6899.	2.8	79
5	Injectable, self-healable zwitterionic cryogels with sustained microRNA - cerium oxide nanoparticle release promote accelerated wound healing. <i>Acta Biomaterialia</i> , 2020, 101, 262-272.	4.1	74
6	Engineering of nanoscale defect patterns in CeO <sub>2</sub> nanorods via ex situ and in situ annealing. <i>Nanoscale</i> , 2015, 7, 5169-5177.	2.8	51
7	One-pot synthesis of a ceria-graphene oxide composite for the efficient removal of arsenic species. <i>Nanoscale</i> , 2017, 9, 3367-3374.	2.8	48
8	Cerium oxide nanoparticles at the nano-bio interface: size-dependent cellular uptake. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2018, 46, 956-963.	1.9	38
9	Morphology and Crystal Planes Effects on Supercapacitance of CeO <sub>2</sub> Nanostructures: Electrochemical and Molecular Dynamics Studies. <i>Particle and Particle Systems Characterization</i> , 2018, 35, 1800176.	1.2	38
10	Metal-Mediated Nanoscale Cerium Oxide Inactivates Human Coronavirus and Rhinovirus by Surface Disruption. <i>ACS Nano</i> , 2021, 15, 14544-14556.	7.3	37
11	Multi-functional cerium oxide nanoparticles regulate inflammation and enhance osteogenesis. <i>Materials Science and Engineering C</i> , 2021, 124, 112041.	3.8	35
12	Characterization of a nitric oxide (NO) donor molecule and cerium oxide nanoparticle (CNP) interactions and their synergistic antimicrobial potential for biomedical applications. <i>Journal of Colloid and Interface Science</i> , 2021, 586, 163-177.	5.0	33
13	Nanosilk Increases the Strength of Diabetic Skin and Delivers CNP-miR146a to Improve Wound Healing. <i>Frontiers in Immunology</i> , 2020, 11, 590285.	2.2	31
14	Functional NiAl-graphene oxide composite as a model coating for aerospace component repair. <i>Carbon</i> , 2016, 105, 529-543.	5.4	30
15	GO-CeO <sub>2</sub> nanohybrid for ultra-rapid fluoride removal from drinking water. <i>Science of the Total Environment</i> , 2021, 793, 148547.	3.9	29
16	Cerium oxide nanoparticle conjugation to microRNA-146a mechanism of correction for impaired diabetic wound healing. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2022, 40, 102483.	1.7	28
17	Cerium oxide nanoparticle delivery of microRNA-146a for local treatment of acute lung injury. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 34, 102388.	1.7	26
18	Computer-Aided Design of Nanoceria Structures as Enzyme Mimetic Agents: The Role of Bodily Electrolytes on Maximizing Their Activity. <i>ACS Applied Bio Materials</i> , 2019, 2, 1098-1106.	2.3	25

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19	Ceria Nanoparticles Decrease UVA-Induced Fibroblast Death Through Cell Redox Regulation Leading to Cell Survival, Migration and Proliferation. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 577557.	2.0	25
20	Tissue deposition and toxicological effects of commercially significant rare earth oxide nanomaterials: Material and physical properties. <i>Environmental Toxicology</i> , 2017, 32, 904-917.	2.1	22
21	Tuning the responsivity of monoclinic $(\text{In}_x\text{Ga}_{1-x})_2\text{O}_3$ solar-blind photodetectors grown by metal organic chemical vapor deposition. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 454001.	1.3	21
22	Antioxidant properties of ALD grown nanoceria films with tunable valency. <i>Biomaterials Science</i> , 2019, 7, 3051-3061.	2.6	20
23	Cerium oxide nanoparticles protect against irradiation-induced cellular damage while augmenting osteogenesis. <i>Materials Science and Engineering C</i> , 2021, 126, 112145.	3.8	19
24	Spatial Atomic Layer Deposition of Molybdenum Oxide for Industrial Solar Cells. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000895.	1.9	18
25	Antioxidative photochemoprotector effects of cerium oxide nanoparticles on UVB irradiated fibroblast cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 191, 111013.	2.5	17
26	Silk fibroin nanofibrous mats for visible sensing of oxidative stress in cutaneous wounds. <i>Biomaterials Science</i> , 2020, 8, 5900-5910.	2.6	16
27	Integration of amorphous ferromagnetic oxides with multiferroic materials for room temperature magnetoelectric spintronics. <i>Scientific Reports</i> , 2020, 10, 3583.	1.6	16
28	Cerium oxide nanomaterial with dual antioxidative scavenging potential: Synthesis and characterization. <i>Journal of Biomaterials Applications</i> , 2021, 36, 834-842.	1.2	16
29	Effect of amine-modified boron nitride (BN) on ammonium perchlorate decomposition. <i>RSC Advances</i> , 2016, 6, 89635-89641.	1.7	15
30	Regolith-derived ferrosilicon as a potential feedstock material for wire-based additive manufacturing. <i>Advances in Space Research</i> , 2019, 63, 2212-2219.	1.2	15
31	Unveiling enhanced oxidation resistance and mechanical integrity of multicomponent ultra-high temperature carbides. <i>Journal of the American Ceramic Society</i> , 2022, 105, 2500-2516.	1.9	15
32	Engineered nanoceria modulate neutrophil oxidative response to low doses of $\text{UVA-B}$ radiation through the inhibition of reactive oxygen species production. <i>Journal of Biomedical Materials Research - Part A</i> , 2021, 109, 2570-2579.	2.1	12
33	Aging of Nanoscale Cerium Oxide in a Peroxide Environment: Its Influence on the Redox, Surface, and Dispersion Character. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27323-27334.	1.5	10
34	Exposure to nanoceria impacts larval survival, life history traits and fecundity of <i>Aedes aegypti</i> . <i>PLoS Neglected Tropical Diseases</i> , 2020, 14, e0008654.	1.3	9
35	Facile nanoparticle dispersion detection in energetic composites by rare earth doped in metal oxide nanostructures. <i>RSC Advances</i> , 2015, 5, 68305-68313.	1.7	8
36	Synthesis of Superior Visible-Light-Driven Nanophotocatalyst Using High Surface Area $\text{TiO}_2$ Nanoparticles Decorated with $\text{Cu}_2\text{O}$ Particles. <i>Catalysts</i> , 2020, 10, 872.	1.6	8

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37	High Figureâ€ofâ€Merit Gallium Oxide UV Photodetector on Silicon by Molecular Beam Epitaxy: A Path toward Monolithic Integration. <i>Advanced Photonics Research</i> , 2021, 2, 2000067.	1.7	8
38	Output facet heating mechanism for uncoated high power long wave infrared quantum cascade lasers. <i>AIP Advances</i> , 2020, 10, .	0.6	7
39	Synthesis and modification of mercapto-submicron scavenger for real-time extraction and preconcentration of As( <i>scp&gt;iii&lt;/scp&gt;</i> ). <i>Analytical Methods</i> , 2018, 10, 245-255.	1.3	6
40	Quantification of complex protective surface oxide layer formed during plasma jet exposure of multicomponent ultra-high temperature carbides. <i>Applied Surface Science</i> , 2022, 592, 153247.	3.1	6
41	Photoelectrochemical analysis of band gap modulated TiO <sub>2</sub> for photocatalytic water splitting. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 9938-9944.	3.8	5
42	High-throughput and versatile design for multi-layer coating deposition using lab automation through Arduino-controlled devices. <i>Review of Scientific Instruments</i> , 2021, 92, 084105.	0.6	3
43	<i>in situ&lt;/i&gt; ellipsometry aided rapid ALD process development and parameter space visualization of cerium oxide nanofilms. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i>, 2021, 39, .</i>	0.9	3
44	Sensitization of breast cancer to Herceptin by redox active nanoparticles. <i>American Journal of Cancer Research</i> , 2021, 11, 4884-4899.	1.4	0