Tudor V Braniste

List of Publications by Year
in descending order

36	586	758635 12	642321 23
papers	citations	h-index	g-index

37	37	37	859
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Threeâ€Dimensional SnO₂ Nanowire Networks for Multifunctional Applications: From Highâ€Temperature Stretchable Ceramics to Ultraresponsive Sensors. Advanced Electronic Materials, 2015, 1, 1500081.	2.6	116
2	Rapid switching and ultra-responsive nanosensors based on individual shellâ€“core Ga2O3/GaN:O @SnO2 nanobelt with nanocrystalline shell in mixed phases. Sensors and Actuators B: Chemical, 2015, 221, 544-555.	4.0	62
3	Integration of individual TiO₂ nanotube on the chip: Nanodevice for hydrogen sensing. Physica Status Solidi - Rapid Research Letters, 2015, 9, 171-174.	1.2	56
4	Three-dimensional Aerographite-GaN hybrid networks: Single step fabrication of porous and mechanically flexible materials for multifunctional applications. Scientific Reports, 2015, 5, 8839.	1.6	45
5	Properties of a single SnO2:Zn2SnO4 â€“ Functionalized nanowire based nanosensor. Ceramics International, 2018, 44, 4859-4867.	2.3	34
6	Self-organized and self-propelled aero-GaN with dual hydrophilic-hydrophobic behaviour. Nano Energy, 2019, 56, 759-769.	8.2	26
7	Photocatalytic properties of TiO2 nanotubes doped with Ag, Au and Pt or covered by Ag, Au and Pt nanodots. Surface Engineering and Applied Electrochemistry, 2015, 51, 3-8.	0.3	18
8	Self-Organized Three-Dimensional Nanostructured Architectures in Bulk GaN Generated by Spatial Modulation of Doping. ECS Journal of Solid State Science and Technology, 2016, 5, P218-P227.	0.9	18
9	Advanced Hybrid GaN/ZnO Nanoarchitectured Microtubes for Fluorescent Micromotors Driven by UV Light. Small, 2020, 16, 1905141.	5.2	18
10	Multilayer porous structures of HVPE and MOCVD grown GaN for photonic applications. Superlattices and Microstructures, 2017, 102, 221-234.	1.4	17
11	Ultra-lightweight pressure sensor based on graphene aerogel decorated with piezoelectric nanocrystalline films. Nanotechnology, 2016, 27, 475203.	1.3	15
12	Viability and proliferation of endothelial cells upon exposure to GaN nanoparticles. Beilstein Journal of Nanotechnology, 2016, 7, 1330-1337.	1.5	14
13	Terahertz shielding properties of aero-GaN. Semiconductor Science and Technology, 2019, 34, 12LT02.	1.0	13
14	Sensing up to 40â€‰atm Using Pressureâ€Sensitive Aeroâ€GaN. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900012.	1.2	13
15	Electromagnetic interference shielding in X-band with aero-GaN. Nanotechnology, 2019, 30, 34LT01.	1.3	12
16	Aero-Ga2O3 Nanomaterial Electromagnetically Transparent from Microwaves to Terahertz for Internet of Things Applications. Nanomaterials, 2020, 10, 1047.	1.9	12
17	Memristive GaN ultrathin suspended membrane array. Nanotechnology, 2016, 27, 295204.	1.3	9
18	Sensitivity of human pluripotent stem cells to insulin precipitation induced by peristaltic pump-based medium circulation: considerations on process development. Scientific Reports, 2017, 7, 3950.	1.6	9

#	Article	IF	Citations
19	Aero-ZnS architectures with dual hydrophilicâ€“hydrophobic properties for microfluidic applications. APL Materials, 2020, 8, .	2.2	9
20	Highly Porous and Ultra-Lightweight Aero-Ga2O3: Enhancement of Photocatalytic Activity by Noble Metals. Materials, 2021, 14, 1985.	1.3	9
21	Targeting Endothelial Cells with Multifunctional GaN/Fe Nanoparticles. Nanoscale Research Letters, 2017, 12, 486.	3.1	7
22	Mesenchymal stem cells proliferation and remote manipulation upon exposure to magnetic semiconductor nanoparticles. Biotechnology Reports (Amsterdam, Netherlands), 2020, 25, e00435.	2.1	7
23	Learning mechanisms in memristor networks based on GaN nanomembranes. Journal of Applied Physics, 2018, 124, 152110.	1.1	6
24	Cathodoluminescence characterization of suspended GaN nanomembranes. Journal of Applied Physics, 2013, 114, .	1.1	5
25	Modulation of Electrical Conductivity and Lattice Distortions in Bulk HVPE-Grown GaN. ECS Journal of Solid State Science and Technology, 2019, 8, Q141-Q146.	0.9	5
26	Ultrafast Third-Order Nonlinear Optical Response Excited by fs Laser Pulses at 1550 nm in GaN Crystals. Materials, 2021, 14, 3194.	1.3	5
27	Ultrathin tin sulfide field-effect transistors with subthreshold slope below 60 mV/decade. Nanotechnology, 2022, 33, 405207.	1.3	5
28	Fabrication of photonic crystal circuits based on GaN ultrathin membranes by maskless lithography. , 2015, , .		4
29	Multilayer porous structures on GaN for the fabrication of Bragg reflectors. Proceedings of SPIE, 2017, , .	0.8	4
30	The impact of nanoperforation on persistent photoconductivity and optical quenching effects in suspended GaN nanomembranes. Applied Physics Letters, 2013, 103, 243113.	1.5	3
31	Self-Propelled Aero-GaN Based Liquid Marbles Exhibiting Pulsed Rotation on the Water Surface. Materials, 2021, 14, 5086.	1.3	3
32	Yellow Luminescence and Optical Quenching of Photoconductivity in Ultrathin Suspended GaN Membranes Produced by Surface Charge Lithography. Journal of Nanoelectronics and Optoelectronics, 2012, 7, 730-734.	0.1	3
33	The microwave properties of tin sulfide thin films prepared by RF magnetron sputtering techniques. Nanotechnology, 2022, 33, 235705.	1.3	3
34	Nanowire Networks: Three-Dimensional SnO2Nanowire Networks for Multifunctional Applications: From High-Temperature Stretchable Ceramics to Ultraresponsive Sensors (Adv. Electron. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1	2.0	
35	Effects of morphology on the emission of photons from GaN membranes fabricated using surface charge lithography. Proceedings of SPIE, 2013, , .	0.8	0
36	Large-Sized Nanocrystalline Ultrathin Î²-Ga2O3 Membranes Fabricated by Surface Charge Lithography. Nanomaterials, 2022, 12, 689.	1.9	0