George Sarau

List of Publications by Year
in descending order

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42 papers	1,718 citations	430843 18 h-index	361001 35 g-index
43 all docs	43 docs citations	43 times ranked	2161 citing authors

#	Article	IF	Citations
1	Novel diagnostic and therapeutic techniques reveal changed metabolic profiles in recurrent focal segmental glomerulosclerosis. Scientific Reports, 2021, 11, 4577.	3.3	12
2	Doubleâ€Sided Grapheneâ€Enhanced Raman Scattering and Fluorescence Quenching in Hybrid Biological Structures. Advanced Materials Technologies, 2021, 6, 2100385.	5.8	3
3	Ultra-Short Laser Surface Properties Optimization of Biocompatibility Characteristics of 3D Poly-Îµ-Caprolactone and Hydroxyapatite Composite Scaffolds. Materials, 2021, 14, 7513.	2.9	2
4	Critical Review of Processing and Classification Techniques for Images and Spectra in Microplastic Research. Applied Spectroscopy, 2020, 74, 989-1010.	2.2	132
5	Correlative Microscopy and Spectroscopy Workflow for Microplastics. Applied Spectroscopy, 2020, 74, 1155-1160.	2.2	26
6	Critical Assessment of Analytical Methods for the Harmonized and Cost-Efficient Analysis of Microplastics. Applied Spectroscopy, 2020, 74, 1012-1047.	2.2	249
7	All-silicon polarized light source based on electrically excited whispering gallery modes in inversely tapered photonic resonators. APL Materials, 2020, 8, 061110.	5.1	5
8	Towards polarization-based excitation tailoring for extended Raman spectroscopy. Optics Express, 2020, 28, 10239.	3.4	5
9	GaNâ€Based Nanorods/Graphene Heterostructures for Optoelectronic Applications. Physica Status Solidi (B): Basic Research, 2019, 256, 1800454.	1.5	5
10	Plasmonic carbon nanohybrids from laser-induced deposition: controlled synthesis and SERS properties. Journal of Materials Science, 2019, 54, 8177-8186.	3.7	13
11	Axial pâ€“n Junctions in GaN Microrods. Physica Status Solidi (B): Basic Research, 2019, 256, 1800452.	1.5	1
12	Germanium Template Assisted Integration of Gallium Arsenide Nanocrystals on Silicon: A Versatile Platform for Modern Optoelectronic Materials. Advanced Optical Materials, 2018, 6, 1701329.	7.3	0
13	Bone tissue aging affects mineralization of cement lines. Bone, 2018, 110, 187-193.	2.9	45
14	A novel copper precursor for electron beam induced deposition. Beilstein Journal of Nanotechnology, 2018, 9, 1220-1227.	2.8	7
15	Small-sized microplastics and pigmented particles in bottled mineral water. Water Research, 2018, 141, 307-316.	11.3	577
16	Efficient Nitrogen Doping of Single-Layer Graphene Accompanied by Negligible Defect Generation for Integration into Hybrid Semiconductor Heterostructures. ACS Applied Materials & Interfaces, 2017, 9, 10003-10011.	8.0	39
17	Development of an optimal filter substrate for the identification of small microplastic particles in food by micro-Raman spectroscopy. Analytical and Bioanalytical Chemistry, 2017, 409, 4099-4109.	3.7	93
18	Effect of ammonification temperature on the formation of coaxial GaN/Ga2O3nanowires. Journal Physics D: Applied Physics, 2017, 50, 035302.	2.8	8

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19	The Formation of Calcified Nanospherites during Micropetrosis Represents a Unique Mineralization Mechanism in Aged Human Bone. Small, 2017, 13, 1602215.	10.0	49
20	In-Situ Characterization of Individual Building Blocks for Nanophotonic Solar Cells by Correlative Microscopy. Microscopy and Microanalysis, 2016, 22, 50-51.	0.4	1
21	Maximizing Photoluminescence Extraction in Silicon Photonic Crystal Slabs. Scientific Reports, 2016, 6, 25135.	3.3	12
22	Vertically Oriented Growth of GaN Nanorods on Si Using Graphene as an Atomically Thin Buffer Layer. Nano Letters, 2016, 16, 3524-3532.	9.1	73
23	Self-Catalyzed Growth of Vertically Aligned InN Nanorods by Metalâ€“Organic Vapor Phase Epitaxy. Nano Letters, 2016, 16, 3415-3425.	9.1	16
24	Inverted silicon nanocones for a next generation of silicon-based optoelectronics. , 2016, , .		0
25	Observation of strongly enhanced photoluminescence from inverted cone-shaped silicon nanostructures. Scientific Reports, 2015, 5, 17089.	3.3	22
26	Study of high quality spinel zinc gallate nanowires grown using CVD and ALD techniques. Nanotechnology, 2015, 26, 335603.	2.6	5
27	Growth of GaN Micro- and Nanorods on Graphene-Covered Sapphire: Enabling Conductivity to Semiconductor Nanostructures on Insulating Substrates. Crystal Growth and Design, 2015, 15, 2079-2086.	3.0	34
28	Modeling the dielectric function of degenerately doped ZnO:Al thin films grown by ALD using physical parameters. Optical Materials Express, 2015, 5, 1979.	3.0	8
29	Selfâ€Catalytic Growth of Î²â€Ga₂O₃ Nanostructures by Chemical Vapor Deposition. Advanced Engineering Materials, 2015, 17, 709-715.	3.5	42
30	Disentangling the effects of nanoscale structural variations on the light emission wavelength of single nano-emitters: InGaN/GaN multiquantum well nano-LEDs for a case study. Nanoscale, 2014, 6, 11953-11962.	5.6	24
31	Study of iron-catalysed growth ofÎ²-Ga₂O₃nanowires and their detailed characterization using TEM, Raman and cathodoluminescence techniques. Journal Physics D: Applied Physics, 2014, 47, 435101.	2.8	63
32	Split Ring Resonators: Enhanced Raman Scattering of Graphene using Arrays of Split Ring Resonators (Advanced Optical Materials 2/2013). Advanced Optical Materials, 2013, 1, 150-150.	7.3	1
33	Enhanced Raman Scattering of Graphene using Arrays of Split Ring Resonators. Advanced Optical Materials, 2013, 1, 151-157.	7.3	34
34	High quality factor whispering gallery modes from self-assembled hexagonal GaN rods grown by metal-organic vapor phase epitaxy. Optics Express, 2013, 21, 2733.	3.4	32
35	Statistical analysis of internal stresses and defect densities in multi-crystalline silicon thin film solar cells on glass using Macro-Raman spectroscopy. , 2011, , .		0
36	The effect of internal stresses on the recombination activity of structural defects in multi-crystalline solar silicon. , 2011, , .		1

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37	Future of raman in PV development. , 2010, , .		5
38	Stresses and their relation to defects in multicrystalline solar silicon. , 2010, , .		4
39	Electrical properties of metalâ€“oxideâ€“silicon structures with LaAlO3 as gate oxide. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 109, 94-98.	3.5	7
40	Field-effect transistor based on nanometric thin CdS films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 109, 260-263.	3.5	34
41	Structural, Electrical, and Photoelectrical Properties of Cd[sub x]Pb[sub 1â^'x]S Thin Films Prepared by Chemical Bath Deposition. Journal of the Electrochemical Society, 2004, 151, G729.	2.9	28
42	Submicrometer-Scale Characterization of Solar Silicon by Raman Spectroscopy. , 0, , 299-332.		1