

Konstantinos Giannakopoulos

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

951
citations

430874

18
h-index

552781

26
g-index

60
all docs

60
docs citations

60
times ranked

1416
citing authors

#	ARTICLE	IF	CITATIONS
1	High strain sensitivity controlled by the surface density of platinum nanoparticles. <i>Nanotechnology</i> , 2012, 23, 285501.	2.6	55
2	Polymer/carbon nanotube composite patterns via laser induced forward transfer. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	48
3	Sol-gel synthesized, low-temperature processed, reduced molybdenum peroxides for organic optoelectronics applications. <i>Journal of Materials Chemistry C</i> , 2014, 2, 6290.	5.5	38
4	Silica coated ferrite nanoparticles: Influence of citrate functionalization procedure on final particle morphology. <i>Ceramics International</i> , 2012, 38, 6635-6641.	4.8	37
5	Porous hot-wire deposited WO ₃ films with high optical transmission. <i>Journal of Applied Physics</i> , 2011, 109, 103527.	2.5	34
6	Nickel nanoparticle deposition at room temperature for memory applications. <i>Microelectronic Engineering</i> , 2007, 84, 1994-1997.	2.4	33
7	Growth of two-dimensional arrays of silicon nanocrystals in thin SiO ₂ layers by low pressure chemical vapour deposition and high temperature annealing/oxidation. Investigation of their charging properties. <i>Nanotechnology</i> , 2004, 15, 1233-1239.	2.6	31
8	Synthesis of nanoporous graphene oxide adsorbents by freeze-drying or microwave radiation: Characterization and hydrogen storage properties. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 6844-6852.	7.1	30
9	Electrical characterization of MOS memory devices containing metallic nanoparticles and a high-k control oxide layer. <i>Surface Science</i> , 2007, 601, 2859-2863.	1.9	29
10	Growth of ZnO nanorods by a simple chemical method. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 88, 35-39.	2.3	28
11	Effect of Pt nanoparticle decoration on the H ₂ storage performance of plasma-derived nanoporous graphene. <i>Carbon</i> , 2021, 171, 294-305.	10.3	27
12	Growth and characterization of high density stoichiometric SiO ₂ dot arrays on Si through an anodic porous alumina template. <i>Nanotechnology</i> , 2006, 17, 2146-2151.	2.6	24
13	Structure and magnetic properties of Zn _{1-x} In _x Fe ₂ O ₄ and Zn _{1-x} Fe _{2-x} O ₄ nanoparticles prepared by coprecipitation. <i>Ceramics International</i> , 2013, 39, 3235-3242.	4.8	24
14	Memory programming of TiO _{2-x} films by Conductive Atomic Force Microscopy evidencing filamentary resistive switching. <i>Applied Surface Science</i> , 2015, 332, 55-61.	6.1	24
15	Growth and morphology manipulation of carbon nanostructures on porous supports. <i>Carbon</i> , 2009, 47, 2161-2173.	10.3	23
16	Coevaporation of CoPt nanoparticles. <i>Applied Physics Letters</i> , 2004, 85, 2854-2856.	3.3	22
17	Inert ambient annealing effect on MANOS capacitor memory characteristics. <i>Nanotechnology</i> , 2015, 26, 134004.	2.6	21
18	Effect of surface functionalization on synthesis of mesoporous silica core/shell particles. <i>Microporous and Mesoporous Materials</i> , 2012, 155, 8-13.	4.4	18

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19	Laser annealing of Al implanted silicon carbide: Structural and optical characterization. Applied Surface Science, 2007, 253, 7912-7916.	6.1	17
20	One-dimensional titanate nanostructures: Synthesis and characterization. Journal of the European Ceramic Society, 2007, 27, 4339-4343.	5.7	17
21	Synthesis and characterization of Cr ³⁺ /N coatings deposited by reactive arc evaporation. Journal of Materials Research, 2008, 23, 3048-3055.	2.6	17
22	Fabrication and electrical characterization of a MOS memory device containing self-assembled metallic nanoparticles. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 38, 85-88.	2.7	16
23	The effect of glucose on the formation of the nanocrystalline transition alumina phases. Ceramics International, 2011, 37, 3253-3263.	4.8	16
24	Influence of atomic layer deposition chemistry on high-k dielectrics for charge trapping memories. Solid-State Electronics, 2012, 68, 38-47.	1.4	16
25	Improved Surface-Enhanced-Raman Scattering Sensitivity Using Si Nanowires/Silver Nanostructures by a Single Step Metal-Assisted Chemical Etching. Nanomaterials, 2021, 11, 1760.	4.1	16
26	Study of charge storage characteristics of memory devices embedded with metallic nanoparticles. Superlattices and Microstructures, 2008, 44, 483-488.	3.1	15
27	Layer by layer deposition of zirconium oxide onto silicon. Thin Solid Films, 2009, 517, 2670-2674.	1.8	15
28	The influence of stoichiometry and annealing temperature on the properties of CuIn _{0.7} Ga _{0.3} Se ₂ and CuIn _{0.7} Ga _{0.3} Te ₂ thin films. Thin Solid Films, 2013, 545, 64-70.	1.8	15
29	Few nanometer thick anodic porous alumina films on silicon with high density of vertical pores. Thin Solid Films, 2007, 515, 3602-3606.	1.8	14
30	Sequential Grafting of Dielectric Phosphates onto Silicon Oxide. Chemistry of Materials, 2007, 19, 5862-5867.	6.7	13
31	Structural and electrical properties of HfO ₂ /Dy ₂ O ₃ gate stacks on Ge substrates. Thin Solid Films, 2010, 518, 3964-3971.	1.8	13
32	Structure and mechanical properties of low temperature magnetron sputtered nanocrystalline (nc-)Ti(N,C)/amorphous diamond like carbon (a-C:H) coatings. Thin Solid Films, 2010, 519, 24-30.	1.8	12
33	The effect of oxygen source on atomic layer deposited Al ₂ O ₃ as blocking oxide in metal/aluminum oxide/nitride/oxide/silicon memory capacitors. Thin Solid Films, 2013, 533, 5-8.	1.8	12
34	Synthesis and characterization of silica core/nano-ferrite shell particles. Materials Research Bulletin, 2012, 47, 1513-1519.	5.2	11
35	Characterization of carbon fractal-like aggregates by size distribution measurements and theoretical calculations. Aerosol Science and Technology, 2016, 50, 133-147.	3.1	11
36	Atomic layer deposited Al ₂ O ₃ thin films as humidity barrier coatings for nanoparticle-based strain sensors. Nanotechnology, 2018, 29, 465706.	2.6	11

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37	Microfocus x-ray study of selective area epitaxy of SiGe on Si. Journal of Applied Physics, 2003, 93, 259-264.	2.5	10
38	Fabrication of nanorods by metal evaporation inside the pores of ultra-thin porous alumina templates. Nanotechnology, 2007, 18, 495604.	2.6	10
39	Low temperature growth of single-crystal ZnO nanorods. Nanotechnology, 2007, 18, 275601.	2.6	9
40	Growth and optical study of ZnO nanorods. Superlattices and Microstructures, 2007, 42, 431-437.	3.1	9
41	Reactive bimetallic Al/Ni nanostructures for nanoscale heating applications fabricated using a porous alumina template. Microelectronic Engineering, 2009, 86, 836-839.	2.4	9
42	EELS study of oxygen superstructure in epitaxial Y2O3 layers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 109, 52-55.	3.5	8
43	Low aspect-ratio porous alumina templates. Microelectronic Engineering, 2008, 85, 1186-1188.	2.4	8
44	Steps in growth of Nb-doped layered titanates with very high surface area suitable for water purification. Materials Chemistry and Physics, 2014, 148, 874-881.	4.0	8
45	Striation development in CBE-grown vicinal plane InGaAs layers. Journal of Crystal Growth, 1998, 188, 26-31.	1.5	7
46	Zinc oxide nanoparticles on silicon. Superlattices and Microstructures, 2006, 39, 115-123.	3.1	7
47	Engineering of FePt nanoparticles by e-beam co-evaporation. Nanotechnology, 2008, 19, 135702.	2.6	7
48	Hydrothermal conversion of Nb-anatase nanoparticles into layered titanates. Ceramics International, 2011, 37, 111-117.	4.8	7
49	Influence of synthesis conditions on formation of core-shell titanate ferrite particles and processing of composite ceramics. Ceramics International, 2015, 41, 1437-1445.	4.8	7
50	Capping technique for chemical vapor deposition of large and uniform MoS2 flakes. Thin Solid Films, 2021, 733, 138808.	1.8	7
51	Structure and magnetic properties of Sm(Co _{0.74} Fe _{0.1} Cu _{0.12} Zr _{0.04}) ₈ melt-spun nanostructured alloys. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 152, 81-85.	3.5	6
52	Dynamic behavior of charge in MOS devices embedded with Pt and Au nanoparticles. Materials Science in Semiconductor Processing, 2009, 12, 57-63.	4.0	6
53	Structural and photoluminescence properties of ZnO nanoparticles on silicon oxide. Applied Physics A: Materials Science and Processing, 2007, 88, 41-44.	2.3	5
54	Hot-wire substoichiometric tungsten oxide films deposited in hydrogen environment with n-type conductivity. Journal Physics D: Applied Physics, 2012, 45, 445101.	2.8	5

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55	Electrostatic self-assembly of nanoparticles into ordered nanowire arrays. Journal of Materials Research, 2011, 26, 209-214.	2.6	4
56	Structural Study of Very Thin Anodic Alumina Films on Silicon by Anodization in Citric Acid Aqueous Solution. Journal of Nanoscience and Nanotechnology, 2005, 5, 454-495.	0.9	3
57	Synthesis and characterization of mesoporous and superparamagnetic bilayered-shell around silica core particles. Ceramics International, 2015, 41, 13480-13485.	4.8	3
58	Influence of HfO ₂ Control Oxide ALD Precursor Chemistry for Nitride Memories. Advanced Materials Research, 2011, 324, 42-45.	0.3	2
59	Deposition Of Uniform Size Metallic Nanoparticles For Use In Non Volatile Memories. Materials Research Society Symposia Proceedings, 2007, 997, 1.	0.1	1
60	Charge Trapping Memories With Atomic Layer Deposited High-k Dielectrics Capping Layers. Materials Research Society Symposia Proceedings, 2010, 1250, 1.	0.1	0