

# 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	Effect of Pt nanoparticle decoration on the H <sub>2</sub> storage performance of plasma-derived nanoporous graphene. <i>Carbon</i> , 2021, 171, 294-305.	10.3	27
2	Improved Surface-Enhanced-Raman Scattering Sensitivity Using Si Nanowires/Silver Nanostructures by a Single Step Metal-Assisted Chemical Etching. <i>Nanomaterials</i> , 2021, 11, 1760.	4.1	16
3	Capping technique for chemical vapor deposition of large and uniform MoS <sub>2</sub> flakes. <i>Thin Solid Films</i> , 2021, 733, 138808.	1.8	7
4	Atomic layer deposited Al <sub>2</sub> O <sub>3</sub> thin films as humidity barrier coatings for nanoparticle-based strain sensors. <i>Nanotechnology</i> , 2018, 29, 465706.	2.6	11
5	Characterization of carbon fractal-like aggregates by size distribution measurements and theoretical calculations. <i>Aerosol Science and Technology</i> , 2016, 50, 133-147.	3.1	11
6	Memory programming of TiO <sub>2</sub> <sup>x</sup> films by Conductive Atomic Force Microscopy evidencing filamentary resistive switching. <i>Applied Surface Science</i> , 2015, 332, 55-61.	6.1	24
7	Inert ambient annealing effect on MANOS capacitor memory characteristics. <i>Nanotechnology</i> , 2015, 26, 134004.	2.6	21
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	Synthesis and characterization of mesoporous and superparamagnetic bilayered-shell around silica core particles. <i>Ceramics International</i> , 2015, 41, 13480-13485.	4.8	3
10	Influence of synthesis conditions on formation of core-shell titanate ferrite particles and processing of composite ceramics. <i>Ceramics International</i> , 2015, 41, 1437-1445.	4.8	7
11	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
12	Steps in growth of Nb-doped layered titanates with very high surface area suitable for water purification. <i>Materials Chemistry and Physics</i> , 2014, 148, 874-881.	4.0	8
13	Structure and magnetic properties of Zn <sub>1-x</sub> In <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> and Zn <sub>1-x</sub> Y <sub>x</sub> Fe <sub>2</sub> O <sub>4</sub> nanoparticles prepared by coprecipitation. <i>Ceramics International</i> , 2013, 39, 3235-3242.	4.8	24
14	The influence of stoichiometry and annealing temperature on the properties of CuIn <sub>0.7</sub> Ga <sub>0.3</sub> Se <sub>2</sub> and CuIn <sub>0.7</sub> Ga <sub>0.3</sub> Te <sub>2</sub> thin films. <i>Thin Solid Films</i> , 2013, 545, 64-70.	1.8	15
15	The effect of oxygen source on atomic layer deposited Al <sub>2</sub> O <sub>3</sub> as blocking oxide in metal/aluminum oxide/nitride/oxide/silicon memory capacitors. <i>Thin Solid Films</i> , 2013, 533, 5-8.	1.8	12
16	Hot-wire substoichiometric tungsten oxide films deposited in hydrogen environment with n-type conductivity. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 445101.	2.8	5
17	High strain sensitivity controlled by the surface density of platinum nanoparticles. <i>Nanotechnology</i> , 2012, 23, 285501.	2.6	55
18	Silica coated ferrite nanoparticles: Influence of citrate functionalization procedure on final particle morphology. <i>Ceramics International</i> , 2012, 38, 6635-6641.	4.8	37

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19	Synthesis and characterization of silica core/nano-ferrite shell particles. <i>Materials Research Bulletin</i> , 2012, 47, 1513-1519.	5.2	11
20	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
21	Influence of atomic layer deposition chemistry on high-k dielectrics for charge trapping memories. <i>Solid-State Electronics</i> , 2012, 68, 38-47.	1.4	16
22	Electrostatic self-assembly of nanoparticles into ordered nanowire arrays. <i>Journal of Materials Research</i> , 2011, 26, 209-214.	2.6	4
23	The effect of glucose on the formation of the nanocrystalline transition alumina phases. <i>Ceramics International</i> , 2011, 37, 3253-3263.	4.8	16
24	Hydrothermal conversion of Nb-anatase nanoparticles into layered titanates. <i>Ceramics International</i> , 2011, 37, 111-117.	4.8	7
25	Influence of HfO <sub>2</sub> Control Oxide ALD Precursor Chemistry for Nitride Memories. <i>Advanced Materials Research</i> , 2011, 324, 42-45.	0.3	2
26	Porous hot-wire deposited WO <sub>3</sub> films with high optical transmission. <i>Journal of Applied Physics</i> , 2011, 109, 103527.	2.5	34
27	Structural and electrical properties of HfO <sub>2</sub> /Dy <sub>2</sub> O <sub>3</sub> gate stacks on Ge substrates. <i>Thin Solid Films</i> , 2010, 518, 3964-3971.	1.8	13
28	Structure and mechanical properties of low temperature magnetron sputtered nanocrystalline (nc-)Ti(N,C)/amorphous diamond like carbon (a-C:H) coatings. <i>Thin Solid Films</i> , 2010, 519, 24-30.	1.8	12
29	Charge Trapping Memories With Atomic Layer Deposited High-k Dielectrics Capping Layers. <i>Materials Research Society Symposia Proceedings</i> , 2010, 1250, 1.	0.1	0
30	Polymer/carbon nanotube composite patterns via laser induced forward transfer. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	48
31	Reactive bimetallic Al/Ni nanostructures for nanoscale heating applications fabricated using a porous alumina template. <i>Microelectronic Engineering</i> , 2009, 86, 836-839.	2.4	9
32	Dynamic behavior of charge in MOS devices embedded with Pt and Au nanoparticles. <i>Materials Science in Semiconductor Processing</i> , 2009, 12, 57-63.	4.0	6
33	Layer by layer deposition of zirconium oxide onto silicon. <i>Thin Solid Films</i> , 2009, 517, 2670-2674.	1.8	15
34	Growth and morphology manipulation of carbon nanostructures on porous supports. <i>Carbon</i> , 2009, 47, 2161-2173.	10.3	23
35	Structure and magnetic properties of Sm(Co <sub>0.74</sub> Fe <sub>0.1</sub> Cu <sub>0.12</sub> Zr <sub>0.04</sub> ) <sub>8</sub> melt-spun nanostructured alloys. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2008, 152, 81-85.	3.5	6
36	Study of charge storage characteristics of memory devices embedded with metallic nanoparticles. <i>Superlattices and Microstructures</i> , 2008, 44, 483-488.	3.1	15

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37	Low aspect-ratio porous alumina templates. <i>Microelectronic Engineering</i> , 2008, 85, 1186-1188.	2.4	8
38	Synthesis and characterization of CrN coatings deposited by reactive arc evaporation. <i>Journal of Materials Research</i> , 2008, 23, 3048-3055.	2.6	17
39	Engineering of FePt nanoparticles by e-beam co-evaporation. <i>Nanotechnology</i> , 2008, 19, 135702.	2.6	7
40	Low temperature growth of single-crystal ZnO nanorods. <i>Nanotechnology</i> , 2007, 18, 275601.	2.6	9
41	Deposition Of Uniform Size Metallic Nanoparticles For Use In Non Volatile Memories. <i>Materials Research Society Symposia Proceedings</i> , 2007, 997, 1.	0.1	1
42	Sequential Grafting of Dielectric Phosphates onto Silicon Oxide. <i>Chemistry of Materials</i> , 2007, 19, 5862-5867.	6.7	13
43	Fabrication of nanorods by metal evaporation inside the pores of ultra-thin porous alumina templates. <i>Nanotechnology</i> , 2007, 18, 495604.	2.6	10
44	Growth and optical study of ZnO nanorods. <i>Superlattices and Microstructures</i> , 2007, 42, 431-437.	3.1	9
45	Few nanometer thick anodic porous alumina films on silicon with high density of vertical pores. <i>Thin Solid Films</i> , 2007, 515, 3602-3606.	1.8	14
46	Laser annealing of Al implanted silicon carbide: Structural and optical characterization. <i>Applied Surface Science</i> , 2007, 253, 7912-7916.	6.1	17
47	Nickel nanoparticle deposition at room temperature for memory applications. <i>Microelectronic Engineering</i> , 2007, 84, 1994-1997.	2.4	33
48	Fabrication and electrical characterization of a MOS memory device containing self-assembled metallic nanoparticles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2007, 38, 85-88.	2.7	16
49	One-dimensional titanate nanostructures: Synthesis and characterization. <i>Journal of the European Ceramic Society</i> , 2007, 27, 4339-4343.	5.7	17
50	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
51	Structural and photoluminescence properties of ZnO nanoparticles on silicon oxide. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 88, 41-44.	2.3	5
52	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
53	Zinc oxide nanoparticles on silicon. <i>Superlattices and Microstructures</i> , 2006, 39, 115-123.	3.1	7
54	Growth and characterization of high density stoichiometric SiO <sub>2</sub> arrays on Si through an anodic porous alumina template. <i>Nanotechnology</i> , 2006, 17, 2146-2151.	2.6	24

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55	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
56	Coevaporation of CoPt nanoparticles. Applied Physics Letters, 2004, 85, 2854-2856.	3.3	22
57	Growth of two-dimensional arrays of silicon nanocrystals in thin SiO <sub>2</sub> layers by low pressure chemical vapour deposition and high temperature annealing/oxidation. Investigation of their charging properties. Nanotechnology, 2004, 15, 1233-1239.	2.6	31
58	EELS study of oxygen superstructure in epitaxial Y <sub>2</sub> O <sub>3</sub> layers. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 109, 52-55.	3.5	8
59	Microfocus x-ray study of selective area epitaxy of SiGe on Si. Journal of Applied Physics, 2003, 93, 259-264.	2.5	10
60	Striation development in CBE-grown vicinal plane InGaAs layers. Journal of Crystal Growth, 1998, 188, 26-31.	1.5	7