

George Kiriakidis

List of Publications by Year in descending order

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112
papers

3,786
citations

117625

34
h-index

144013

57
g-index

117
all docs

117
docs citations

117
times ranked

4585
citing authors

#	ARTICLE	IF	CITATIONS
1	ZnO transparent thin films for gas sensor applications. <i>Thin Solid Films</i> , 2006, 515, 551-554.	1.8	290
2	Zinc oxide as an ozone sensor. <i>Journal of Applied Physics</i> , 2004, 96, 1398-1408.	2.5	181
3	Modified TiO ₂ based photocatalysts for improved air and health quality. <i>Journal of Materiomics</i> , 2017, 3, 3-16.	5.7	181
4	Comparative study of zinc oxide and aluminum doped zinc oxide transparent thin films grown by direct current magnetron sputtering. <i>Thin Solid Films</i> , 2007, 515, 6562-6566.	1.8	179
5	Fabrication of photonic crystals by deep x-ray lithography. <i>Applied Physics Letters</i> , 1997, 71, 1441-1443.	3.3	129
6	Dependence of the photoreduction and oxidation behavior of indium oxide films on substrate temperature and film thickness. <i>Journal of Applied Physics</i> , 2001, 90, 5382-5387.	2.5	106
7	The influence of deposition parameters on room temperature ozone sensing properties of InOx films. <i>Sensors and Actuators B: Chemical</i> , 2001, 80, 155-161.	7.8	100
8	Solution Processed CH ₃ NH ₃ PbI ₃ Perovskite Based Self-Powered Ozone Sensing Element Operated at Room Temperature. <i>ACS Sensors</i> , 2018, 3, 135-142.	7.8	96
9	Production and characterization of zinc oxide thin films for room temperature ozone sensing. <i>Thin Solid Films</i> , 2002, 418, 45-50.	1.8	82
10	Low temperature indium oxide gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2006, 118, 135-141.	7.8	80
11	Optical and structural properties of ZnO for transparent electronics. <i>Thin Solid Films</i> , 2008, 516, 1345-1349.	1.8	74
12	Photoreduction and oxidation of as-deposited microcrystalline indium oxide. <i>Journal of Applied Physics</i> , 1996, 79, 9349-9352.	2.5	73
13	Fabrication of Visible Light-Induced Antibacterial and Self-Cleaning Cotton Fabrics Using Manganese Doped TiO ₂ Nanoparticles. <i>ACS Applied Bio Materials</i> , 2018, 1, 1154-1164.	4.6	72
14	Determination of photo-catalytic activity of un-doped and Mn-doped TiO ₂ anatase powders on acetaldehyde under UV and visible light. <i>Thin Solid Films</i> , 2011, 520, 1195-1201.	1.8	70
15	Large-Area All-Printed Temperature Sensing Surfaces Using Novel Composite Thermistor Materials. <i>Advanced Electronic Materials</i> , 2019, 5, 1800605.	5.1	68
16	Thickness influence on surface morphology and ozone sensing properties of nanostructured ZnO transparent thin films grown by PLD. <i>Applied Surface Science</i> , 2006, 252, 5351-5354.	6.1	65
17	Mechanical properties of ZnO thin films deposited on polyester substrates used in flexible device applications. <i>Thin Solid Films</i> , 2010, 519, 325-330.	1.8	63
18	Inactivation of MS2 coliphage in sewage by solar photocatalysis using metal-doped TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2015, 178, 54-64.	20.2	59

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19	Correlation between morphology and electro-optical properties of nanostructured CdO thin films: Influence of Al doping. <i>Surface and Coatings Technology</i> , 2012, 213, 15-20.	4.8	58
20	Highly Sensitive ZnO Ozone Detectors at Room Temperature. <i>Japanese Journal of Applied Physics</i> , 2003, 42, L435-L437.	1.5	55
21	Photocatalytic oxidation of gaseous benzene, toluene and xylene under UV and visible irradiation over Mn-doped TiO ₂ nanoparticles. <i>Journal of Materiomics</i> , 2019, 5, 56-65.	5.7	51
22	Ozone sensing properties of ZnO nanostructures grown by the aqueous chemical growth technique. <i>Sensors and Actuators B: Chemical</i> , 2007, 124, 187-191.	7.8	49
23	Correlating the magnetism and gas sensing properties of Mn-doped ZnO films enhanced by UV irradiation. <i>RSC Advances</i> , 2016, 6, 26227-26238.	3.6	45
24	Correlation of ZnO thin film surface properties with conductivity. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 89, 57-61.	2.3	44
25	Ligand-free all-inorganic metal halide nanocubes for fast, ultra-sensitive and self-powered ozone sensors. <i>Nanoscale Advances</i> , 2019, 1, 2699-2706.	4.6	44
26	Ozone Sensing Properties of Polycrystalline Indium Oxide Films at Room Temperature. <i>Physica Status Solidi A</i> , 2001, 185, 27-32.	1.7	43
27	Defect-induced magnetism in undoped and Mn-doped wide band gap zinc oxide grown by aerosol spray pyrolysis. <i>Applied Surface Science</i> , 2014, 311, 14-26.	6.1	43
28	Hierarchically Porous Cu-, Co-, and Mn-Doped Platelet-Like ZnO Nanostructures and Their Photocatalytic Performance for Indoor Air Quality Control. <i>ACS Omega</i> , 2019, 4, 16429-16440.	3.5	42
29	Ozone sensing properties of DC-sputtered, c-axis oriented ZnO films at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2003, 96, 76-81.	7.8	40
30	Effect of metal doped and co-doped TiO ₂ photocatalysts oriented to degrade indoor/outdoor pollutants for air quality improvement. A kinetic and product study using acetaldehyde as probe molecule. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019, 371, 255-263.	3.9	38
31	Effect of doping on electron traps in metalorganic molecular-beam epitaxial Ga _x In _{1-x} P/GaAs heterostructures. <i>Applied Physics Letters</i> , 1991, 59, 3127-3129.	3.3	37
32	Study of low temperature rf-sputtered Mg-doped vanadium dioxide thermochromic films deposited on low-emissivity substrates. <i>Thin Solid Films</i> , 2016, 601, 99-105.	1.8	37
33	Structural characterization of ZnO thin films deposited by dc magnetron sputtering. <i>Thin Solid Films</i> , 2007, 515, 8577-8581.	1.8	36
34	An overview of photocatalytic materials. <i>Journal of Materiomics</i> , 2017, 3, 1-2.	5.7	36
35	Low-temperature rf sputtered VO ₂ thin films as thermochromic coatings for smart glazing systems. <i>Solar Energy</i> , 2018, 165, 115-121.	6.1	36
36	Infrared spectroscopic and electronic transport properties of polycrystalline semiconducting FeSi ₂ thin films. <i>Journal of Applied Physics</i> , 1996, 80, 962-968.	2.5	35

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37	The effect of Au and Pt nanoclusters on the structural and hydrogen sensing properties of SnO ₂ thin films. <i>Thin Solid Films</i> , 2009, 518, 1109-1113.	1.8	35
38	Structural and optical properties of ZnO nanostructures grown by aerosol spray pyrolysis: Candidates for room temperature methane and hydrogen gas sensing. <i>Applied Surface Science</i> , 2013, 279, 142-149.	6.1	35
39	Ultra-low gas sensing utilizing metal oxide thin films. <i>Vacuum</i> , 2012, 86, 495-506.	3.5	33
40	Study of innovative photocatalytic cement based coatings: The effect of supporting materials. <i>Construction and Building Materials</i> , 2018, 168, 923-930.	7.2	33
41	Solar photocatalytic degradation of propyl paraben in Al-doped TiO ₂ suspensions. <i>Catalysis Today</i> , 2018, 313, 148-154.	4.4	33
42	Degradation of Sulfamethoxazole Using Iron-Doped Titania and Simulated Solar Radiation. <i>Catalysts</i> , 2019, 9, 612.	3.5	31
43	Life cycle assessment of facile microwave-assisted zinc oxide (ZnO) nanostructures. <i>Science of the Total Environment</i> , 2017, 586, 566-575.	8.0	28
44	Substrate temperature influence on the properties of nanostructured ZnO transparent ultrathin films grown by PLD. <i>Applied Surface Science</i> , 2007, 253, 8141-8145.	6.1	26
45	Structural analysis of aerosol spray pyrolysis ZnO films exhibiting ultra low ozone detection limits at room temperature. <i>Thin Solid Films</i> , 2009, 518, 1208-1213.	1.8	26
46	Optical properties and structure of microcrystalline hydrogenated silicon prepared by radio-frequency magnetron sputtering. <i>Journal of Applied Physics</i> , 1988, 64, 2389-2398.	2.5	25
47	Holographic recording in indium oxide (In ₂ O ₃) and indium-tin oxide (In ₂ O ₃ :Sn) thin films. <i>Applied Physics Letters</i> , 1996, 69, 2459-2461.	3.3	25
48	The effect of buffer layer on the thermochromic properties of undoped radio frequency sputtered VO ₂ thin films. <i>Thin Solid Films</i> , 2015, 594, 310-315.	1.8	24
49	Transparent p-type NiO:Al thin films as room temperature hydrogen and methane gas sensors. <i>Materials Science in Semiconductor Processing</i> , 2020, 109, 104922.	4.0	24
50	Electrical and structural properties of Ga _{0.51} In _{0.49} P/GaAs heterojunctions grown by metalorganic vapor-phase epitaxy. <i>Applied Physics Letters</i> , 1992, 60, 2749-2751.	3.3	23
51	Metal oxide semiconductors as visible light photocatalysts. <i>Journal of the Korean Physical Society</i> , 2014, 65, 297-302.	0.7	23
52	Insights into the Performance of Co _x Ni _{1-x} TiO ₃ Solid Solutions as Photocatalysts for Sun-Driven Water Oxidation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40290-40297.	8.0	23
53	High performance hydrogen gas sensors based on PdO-decorated p-type CoV ₂ O ₆ nanoparticles. <i>Sensors and Actuators B: Chemical</i> , 2020, 324, 128744.	7.8	22
54	Characterization and Gas-sensing Performance of Spray Pyrolysed In ₂ O ₃ Thin Films: Substrate Temperature Effect. <i>Transactions on Electrical and Electronic Materials</i> , 2012, 13, 111-115.	1.9	22

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55	Modifications in $\text{In}_x\text{Si}_{1-x}\text{H}$ during thermal annealing: In situ spectroscopic ellipsometry. <i>Journal of Applied Physics</i> , 1991, 70, 2791-2798.	2.5	21
56	Optical and electrical characterization of high quality $\text{In}_2\text{-FeSi}_2$ thin films grown by solid phase epitaxy. <i>Applied Surface Science</i> , 1996, 102, 178-183.	6.1	21
57	Thermochromic Behavior of VO_2 /Polymer Nanocomposites for Energy Saving Coatings. <i>Coatings</i> , 2019, 9, 163.	2.6	21
58	A study on the sensing of NO_2 and O_2 utilizing ZnO films grown by aerosol spray pyrolysis. <i>Materials Chemistry and Physics</i> , 2015, 162, 628-639.	4.0	20
59	Permanent holographic recording in indium oxide thin films using 193 nm excimer laser radiation. <i>Applied Physics A: Materials Science and Processing</i> , 1999, 69, 333-336.	2.3	19
60	Orientation-dependent low field magnetic anomalies and room-temperature spintronic material Mn doped ZnO films by aerosol spray pyrolysis. <i>Journal of Alloys and Compounds</i> , 2013, 579, 485-494.	5.5	19
61	Atmospheric Pressure Chemical Vapor Deposition Of Amorphous Tungsten Doped Vanadium Dioxide For Smart Window Applications. <i>Advanced Materials Letters</i> , 2016, 7, 192-196.	0.6	19
62	Low temperature dc characteristics of Sb and Si doped $\text{Ga}_{0.51}\text{In}_{0.49}\text{P}/\text{GaAs}$ high electron mobility transistors grown by metalorganic molecular beam epitaxy. <i>Applied Physics Letters</i> , 1992, 60, 3162-3164.	3.3	18
63	Gratings in indium oxide film overlayers on ion-exchanged waveguides by excimer laser micromachining. <i>Applied Physics Letters</i> , 2001, 78, 694-696.	3.3	18
64	Studies on photo-induced NO removal by Mn-doped TiO_2 under indoor-like illumination conditions. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 222, 304-306.	3.9	18
65	Two-dimensional metallic photonic band-gap crystals fabricated by LIGA. <i>Microsystem Technologies</i> , 2002, 8, 74-77.	2.0	17
66	ZnWO ₄ nanoparticles as efficient photocatalyst for degradation of para-aminobenzoic acid: Impact of annealing temperature on photocatalytic performance. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2021, 406, 113002.	3.9	16
67	Low temperature rf-sputtered thermochromic VO_2 films on flexible glass substrates. <i>Advanced Materials Letters</i> , 2017, 8, 757-761.	0.6	16
68	Laser-machined layer-by-layer metallic photonic band-gap structures. <i>Applied Physics Letters</i> , 1999, 74, 3263-3265.	3.3	15
69	Indium oxide as a possible tunnel barrier in spintronic devices. <i>Thin Solid Films</i> , 2005, 471, 293-297.	1.8	15
70	Highly sensitive and room temperature detection of ultra-low concentrations of O_3 using self-powered sensing elements of Cu_2O nanocubes. <i>Nanoscale Advances</i> , 2019, 1, 2009-2017.	4.6	15
71	Highly sensitive and selective NO_2 chemical sensors based on Al doped NiO thin films. <i>Materials Science in Semiconductor Processing</i> , 2020, 115, 105149.	4.0	14
72	Pure and Nb ₂ O ₅ -doped TiO_2 amorphous thin films grown by dc magnetron sputtering at room temperature: Surface and photo-induced hydrophilic conversion studies. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2007, 144, 54-59.	3.5	13

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73	Effect of solution chemistry on the characteristics of hydrothermally grown WO ₃ for electroactive applications. <i>Thin Solid Films</i> , 2015, 594, 333-337.	1.8	13
74	A life cycle assessment of PCM and VIP in warm Mediterranean climates and their introduction as a strategy to promote energy savings and mitigate carbon emissions. <i>AIMS Materials Science</i> , 2019, 6, 944-959.	1.4	13
75	Study on the Ozone Gas Sensing Properties of rf-Sputtered Al-Doped NiO Films. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3104.	2.5	12
76	Room Temperature p-Type NiO Nanostructure Thin Film Sensor for Hydrogen and Methane Detection. <i>Sensor Letters</i> , 2017, 15, 663-667.	0.4	12
77	An instant photo-excited electrons relaxation on the photo-degradation properties of TiO ₂ films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2014, 293, 72-80.	3.9	11
78	A Promising Technological Approach to Improve Indoor Air Quality. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4837.	2.5	10
79	Porous Co _x Ni _{1-x} TiO ₃ nanorods for solar photocatalytic degradation of ethyl paraben. <i>Journal of Materiomics</i> , 2020, 6, 788-799.	5.7	10
80	Formation of (100)GaAs on (100)silicon by laser recrystallization. <i>Applied Physics Letters</i> , 1986, 48, 1516-1518.	3.3	9
81	Effect of O ₂ flow rate on the thermochromic performance of VO ₂ coatings grown by atmospheric pressure CVD. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2015, 12, 856-860.	0.8	9
82	Vanadium oxide nanostructured thin films prepared by Aerosol Spray Pyrolysis for gas sensing and thermochromic applications. <i>Materials Science in Semiconductor Processing</i> , 2019, 89, 116-120.	4.0	9
83	Metal Titanate (ATiO ₃ , A: Ni, Co, Mg, Zn) Nanorods for Toluene Photooxidation under LED Illumination. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10850.	2.5	9
84	Study of the ambient optical recording dynamics on sputtered indium oxide thin films. <i>Applied Physics A: Materials Science and Processing</i> , 1998, 66, 651-654.	2.3	8
85	Structural and chemical characterization of as-deposited microcrystalline indium oxide films prepared by dc reactive magnetron sputtering. <i>Journal of Electronic Materials</i> , 1999, 28, 26-34.	2.2	8
86	Photon sensitive high index metal oxide films. <i>Journal of Physics Condensed Matter</i> , 2004, 16, S3757-S3768.	1.8	8
87	Long-term stability of transparent n/p ZnO homojunctions grown by rf-sputtering at room-temperature. <i>Journal of Materiomics</i> , 2019, 5, 428-435.	5.7	8
88	Ageing Resistant Indium Oxide Ozone Sensing Films. <i>Sensor Letters</i> , 2016, 14, 563-566.	0.4	8
89	On the growth of transparent conductive oxide ternary alloys ZnIrO (ZIRO) by the means of rf magnetron co-sputtering. <i>Thin Solid Films</i> , 2016, 617, 3-8.	1.8	7
90	Optical sensor with transparent conductive oxides electrodes for microposition detection applications. <i>Thin Solid Films</i> , 2009, 518, 1057-1059.	1.8	6

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91	Optical constants correlated electrons-spin of micro doughnuts of Mn-doped ZnO films. Applied Surface Science, 2013, 280, 79-88.	6.1	6
92	Tribological investigation of piezoelectric ZnO films for rolling contact-based energy harvesting and sensing applications. Thin Solid Films, 2014, 555, 68-75.	1.8	6
93	Smart Surfaces: Heterogeneous Photo-Catalysis on TiO ₂ Based Coatings for De-pollution Purposes in Indoor and Outdoor Environments. Topics in Catalysis, 2020, 63, 875-881.	2.8	6
94	On the Road to Inexpensive, sub-ppb, Room Temperature Ozone Detectors. Sensor Letters, 2008, 6, 812-816.	0.4	6
95	Chemical characterization of as-deposited microcrystalline indium oxide films prepared by reactive dc magnetron sputtering. Applied Physics A: Materials Science and Processing, 1998, 67, 295-301.	2.3	5
96	Study of the generated genetic polymorphisms during the photocatalytic elimination of Klebsiella pneumoniae in water. Photochemical and Photobiological Sciences, 2015, 14, 506-513.	2.9	5
97	Microstructural properties and density dependence of the optical properties of microcrystalline silicon films by spectroscopic ellipsometry and electron microscopy. Thin Solid Films, 1989, 169, 87-104.	1.8	4
98	Deep level analysis of undoped Ga _x In _{1-x} P/GaAs single heterojunctions grown by MOMBE and MOVPE. Sensors and Actuators A: Physical, 1992, 33, 63-66.	4.1	4
99	Structural characterization of molecular beam epitaxy grown ZnSe-based layers on GaAs substrates for blue-green laser diodes. Thin Solid Films, 2000, 360, 195-204.	1.8	4
100	Study of the pH effect on the properties of the hydrothermally grown V ₂ O ₅ . Thin Solid Films, 2015, 594, 338-342.	1.8	4
101	Effect of Gold Doping on the Structural, Electrical and Volatile Sensitivity of Spray Pyrolysis ZnO Thin Films. Sensor Letters, 2011, 9, 1712-1717.	0.4	4
102	Highly Selective Adsorbent and Photocatalytic Material for Industrial Wastewater Treatment. Advanced Engineering Materials, 2017, 19, 1600661.	3.5	3
103	Multimodal microscopy test standard for scanning microwave, electron, force and optical microscopy. Journal of Micro-Bio Robotics, 2018, 14, 51-57.	2.1	3
104	Structural study of In _x Ga _{1-x} P/GaAs interfaces grown by MOMBE. Semiconductor Science and Technology, 1992, 7, A127-A130.	2.0	2
105	Titanate-PMMA composites in photoluminescence based oxygen sensing. Materials Science in Semiconductor Processing, 2021, 133, 105942.	4.0	2
106	ZnO Thin Films for Cantilever Coatings: Structural and Mechanical Properties, Observations of Photoplastic Effect. Sensor Letters, 2008, 6, 558-563.	0.4	2
107	Nano-structural and surface characteristics of non-stoichiometric In ₂ O _{3-x} thin films. International Journal of Nanotechnology, 2009, 6, 208.	0.2	1
108	Transmission lines thermal switches utilizing novel phase changing materials. , 2017, , .		1

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109	Low-energy consumption CuSCN-based ultra-low-ppb level ozone sensor, operating at room temperature. <i>Sensors and Actuators A: Physical</i> , 2022, 338, 113462.	4.1	1
110	2nd International Symposium on Transparent Conductive Oxides (TCO2008) to Be Held in October 2008. <i>MRS Bulletin</i> , 2008, 33, 709-709.	3.5	0
111	TCO2008 Illuminates Latest Research in Transparent Conductive Oxides. <i>MRS Bulletin</i> , 2009, 34, 212-212.	3.5	0
112	On the connection between photo catalytic activities and magnetic properties of TiO ₂ x films. <i>Journal of Alloys and Compounds</i> , 2016, 654, 344-348.	5.5	0