# George Kiriakidis

List of Publications by Year
in descending order



| 112 | 3,786 | 117571 | 143943 |
|---|---|---|---|
| papers | citations | 34 h-index | 57 g-index |

| 117 | 117 | 117 | 4585 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Low-energy consumption CuSCN-based ultra-low-ppb level ozone sensor, operating at room temperature. Sensors and Actuators A: Physical, 2022, 338, 113462. | 2.0 | 1 |
| 2 | ZnWO4 nanoparticles as efficient photocatalyst for degradation of para-aminobenzoic acid: Impact of annealing temperature on photocatalytic performance. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 406, 113002. | 2.0 | 16 |
| 3 | Study on the Ozone Gas Sensing Properties of rf-Sputtered Al-Doped NiO Films. Applied Sciences (Switzerland), 2021, 11, 3104. | 1.3 | 12 |
| 4 | Titanate-PMMA composites in photoluminescence based oxygen sensing. Materials Science in Semiconductor Processing, 2021, 133, 105942. | 1.9 | 2 |
| 5 | Metal Titanate (ATiO3, A: Ni, Co, Mg, Zn) Nanorods for Toluene Photooxidation under LED Illumination. Applied Sciences (Switzerland), 2021, 11, 10850. | 1.3 | 9 |
| 6 | High performance hydrogen gas sensors based on PdO-decorated p-type CoV2O6 nanoparticles. Sensors and Actuators B: Chemical, 2020, 324, 128744. | 4.0 | 22 |
| 7 | Smart Surfaces: Heterogeneous Photo-Catalysis on TiO2 Based Coatings for De-pollution Purposes in Indoor and Outdoor Environments. Topics in Catalysis, 2020, 63, 875-881. | 1.3 | 6 |
| 8 | Highly sensitive and selective NO2 chemical sensors based on Al doped NiO thin films. Materials Science in Semiconductor Processing, 2020, 115, 105149. | 1.9 | 14 |
| 9 | Porous CoxNi1-xTiO3 nanorods for solar photocatalytic degradation of ethyl paraben. Journal of Materiomics, 2020, 6, 788-799. | 2.8 | 10 |
| 10 | Transparent p-type NiO:Al thin films as room temperature hydrogen and methane gas sensors. Materials Science in Semiconductor Processing, 2020, 109, 104922. | 1.9 | 24 |
| 11 | Degradation of Sulfamethoxazole Using Iron-Doped Titania and Simulated Solar Radiation. Catalysts, 2019, 9, 612. | 1.6 | 31 |
| 12 | Hierarchically Porous Cu-, Co-, and Mn-Doped Platelet-Like ZnO Nanostructures and Their Photocatalytic Performance for Indoor Air Quality Control. ACS Omega, 2019, 4, 16429-16440. | 1.6 | 42 |
| 13 | Ligand-free all-inorganic metal halide nanocubes for fast, ultra-sensitive and self-powered ozone sensors. Nanoscale Advances, 2019, 1, 2699-2706. | 2.2 | 44 |
| 14 | Thermochromic Behavior of VO2/Polymer Nanocomposites for Energy Saving Coatings. Coatings, 2019, 9, 163. | 1.2 | 21 |
| 15 | Highly sensitive and room temperature detection of ultra-low concentrations of O<sub>3</sub> using self-powered sensing elements of Cu<sub>2</sub>O nanocubes. Nanoscale Advances, 2019, 1, 2009-2017. | 2.2 | 15 |
| 16 | Long-term stability of transparent n/p ZnO homojunctions grown by rf-sputtering at room-temperature. Journal of Materiomics, 2019, 5, 428-435. | 2.8 | 8 |
| 17 | A Promising Technological Approach to Improve Indoor Air Quality. Applied Sciences (Switzerland), 2019, 9, 4837. | 1.3 | 10 |
| 18 | Vanadium oxide nanostructured thin films prepared by Aerosol Spray Pyrolysis for gas sensing and thermochromic applications. Materials Science in Semiconductor Processing, 2019, 89, 116-120. | 1.9 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Photocatalytic oxidation of gaseous benzene, toluene and xylene under UV and visible irradiation over Mn-doped TiO2 nanoparticles. Journal of Materiomics, 2019, 5, 56-65. | 2.8 | 51 |
| 20 | Effect of metal doped and co-doped TiO2 photocatalysts oriented to degrade indoor/outdoor pollutants for air quality improvement. A kinetic and product study using acetaldehyde as probe molecule. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 371, 255-263. | 2.0 | 38 |
| 21 | Largeâ€Area Allâ€Printed Temperature Sensing Surfaces Using Novel Composite Thermistor Materials. Advanced Electronic Materials, 2019, 5, 1800605. | 2.6 | 68 |
| 22 | 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. AIMS Materials Science, 2019, 6, 944-959. | 0.7 | 13 |
| 23 | Low-temperature rf sputtered VO2 thin films as thermochromic coatings for smart glazing systems. Solar Energy, 2018, 165, 115-121. | 2.9 | 36 |
| 24 | Study of innovative photocatalytic cement based coatings: The effect of supporting materials. Construction and Building Materials, 2018, 168, 923-930. | 3.2 | 33 |
| 25 | Solar photocatalytic degradation of propyl paraben in Al-doped TiO2 suspensions. Catalysis Today, 2018, 313, 148-154. | 2.2 | 33 |
| 26 | Solution Processed CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3â€“x</sub>Cl<sub>x</sub> Perovskite Based Self-Powered Ozone Sensing Element Operated at Room Temperature. ACS Sensors, 2018, 3, 135-142. | 4.0 | 96 |
| 27 | Fabrication of Visible Light-Induced Antibacterial and Self-Cleaning Cotton Fabrics Using Manganese Doped TiO<sub>2</sub> Nanoparticles. ACS Applied Bio Materials, 2018, 1, 1154-1164. | 2.3 | 72 |
| 28 | Multimodal microscopy test standard for scanning microwave, electron, force and optical microscopy. Journal of Micro-Bio Robotics, 2018, 14, 51-57. | 2.1 | 3 |
| 29 | An overview of photocatalytic materials. Journal of Materiomics, 2017, 3, 1-2. | 2.8 | 36 |
| 30 | Life cycle assessment of facile microwave-assisted zinc oxide (ZnO) nanostructures. Science of the Total Environment, 2017, 586, 566-575. | 3.9 | 28 |
| 31 | Insights into the Performance of Co<sub>x</sub>Ni<sub>1â€“x</sub>TiO<sub>3</sub> Solid Solutions as Photocatalysts for Sun-Driven Water Oxidation. ACS Applied Materials & Interfaces, 2017, 9, 40290-40297. | 4.0 | 23 |
| 32 | Highly Selective Adsorbent and Photacatalytic Material for Industrial Wastewater Treatment. Advanced Engineering Materials, 2017, 19, 1600661. | 1.6 | 3 |
| 33 | Modified TiO 2 based photocatalysts for improved air and health quality. Journal of Materiomics, 2017, 3, 3-16. | 2.8 | 181 |
| 34 | Transmission lines thermal switches utilizing novel phase changing materials. , 2017, , . | | 1 |
| 35 | Room Temperature p-Type NiO Nanostructure Thin Film Sensor for Hydrogen and Methane Detection. Sensor Letters, 2017, 15, 663-667. | 0.4 | 12 |
| 36 | Low temperature rf-sputtered thermochromic VO2 films on flexible glass substrates. Advanced Materials Letters, 2017, 8, 757-761. | 0.3 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | On the growth of transparent conductive oxide ternary alloys Znâ€“Irâ€“O (ZIRO) by the means of rf magnetron co-sputtering. Thin Solid Films, 2016, 617, 3-8. | 0.8 | 7 |
| 38 | Correlating the magnetism and gas sensing properties of Mn-doped ZnO films enhanced by UV irradiation. RSC Advances, 2016, 6, 26227-26238. | 1.7 | 45 |
| 39 | Study of low temperature rf-sputtered Mg-doped vanadium dioxide thermochromic films deposited on low-emissivity substrates. Thin Solid Films, 2016, 601, 99-105. | 0.8 | 37 |
| 40 | On the connection between photo catalytic activities and magnetic properties of TiO2â^'x films. Journal of Alloys and Compounds, 2016, 654, 344-348. | 2.8 | 0 |
| 41 | Ageing Resistant Indium Oxide Ozone Sensing Films. Sensor Letters, 2016, 14, 563-566. | 0.4 | 8 |
| 42 | Atmospheric Pressure Chemical Vapor Deposition Of Amorphous Tungsten Doped Vanadium Dioxide ForÂsmart Window Applications Â. Advanced Materials Letters, 2016, 7, 192-196. | 0.3 | 19 |
| 43 | Effect of O<sub>2</sub> flow rate on the thermochromic performance of VO<sub>2</sub> coatings grown by atmospheric pressure CVD. Physica Status Solidi C: Current Topics in Solid State Physics, 2015, 12, 856-860. | 0.8 | 9 |
| 44 | The effect of buffer layer on the thermochromic properties of undoped radio frequency sputtered VO2 thin films. Thin Solid Films, 2015, 594, 310-315. | 0.8 | 24 |
| 45 | Effect of solution chemistry on the characteristics of hydrothermally grown WO3 for electroactive applications. Thin Solid Films, 2015, 594, 333-337. | 0.8 | 13 |
| 46 | Study of the pH effect on the properties of the hydrothermally grown V2O5. Thin Solid Films, 2015, 594, 338-342. | 0.8 | 4 |
| 47 | A study on the sensing of NO2 and O2 utilizing ZnO films grown by aerosol spray pyrolysis. Materials Chemistry and Physics, 2015, 162, 628-639. | 2.0 | 20 |
| 48 | Inactivation of MS2 coliphage in sewage by solar photocatalysis using metal-doped TiO2. Applied Catalysis B: Environmental, 2015, 178, 54-64. | 10.8 | 59 |
| 49 | Study of the generated genetic polymorphisms during the photocatalytic elimination of Klebsiella pneumoniae in water. Photochemical and Photobiological Sciences, 2015, 14, 506-513. | 1.6 | 5 |
| 50 | Defect-induced magnetism in undoped and Mn-doped wide band gap zinc oxide grown by aerosol spray pyrolysis. Applied Surface Science, 2014, 311, 14-26. | 3.1 | 43 |
| 51 | Metal oxide semiconductors as visible light photocatalysts. Journal of the Korean Physical Society, 2014, 65, 297-302. | 0.3 | 23 |
| 52 | An instant photo-excited electrons relaxation on the photo-degradation properties of TiO2â^'x films. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 293, 72-80. | 2.0 | 11 |
| 53 | Tribological investigation of piezoelectric ZnO films for rolling contact-based energy harvesting and sensing applications. Thin Solid Films, 2014, 555, 68-75. | 0.8 | 6 |
| 54 | Orientation-dependent low field magnetic anomalies and room-temperature spintronic material â€“ Mn doped ZnO films by aerosol spray pyrolysis. Journal of Alloys and Compounds, 2013, 579, 485-494. | 2.8 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Optical constants correlated electrons-spin of micro doughnuts of Mn-doped ZnO films. Applied Surface Science, 2013, 280, 79-88. | 3.1 | 6 |
| 56 | Structural and optical properties of ZnO nanostructures grown by aerosol spray pyrolysis: Candidates for room temperature methane and hydrogen gas sensing. Applied Surface Science, 2013, 279, 142-149. | 3.1 | 35 |
| 57 | Correlation between morphology and electro-optical properties of nanostructured CdO thin films: Influence of Al doping. Surface and Coatings Technology, 2012, 213, 15-20. | 2.2 | 58 |
| 58 | Ultra-low gas sensing utilizing metal oxide thin films. Vacuum, 2012, 86, 495-506. | 1.6 | 33 |
| 59 | Characterization and Gas-sensing Performance of Spray Pyrolysed In2O3Thin Films: Substrate Temperature Effect. Transactions on Electrical and Electronic Materials, 2012, 13, 111-115. | 1.0 | 22 |
| 60 | Determination of photo-catalytic activity of un-doped and Mn-doped TiO2 anatase powders on acetaldehyde under UV and visible light. Thin Solid Films, 2011, 520, 1195-1201. | 0.8 | 70 |
| 61 | Studies on photo-induced NO removal by Mn-doped TiO2 under indoor-like illumination conditions. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 222, 304-306. | 2.0 | 18 |
| 62 | 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 |
| 63 | Mechanical properties of ZnO thin films deposited on polyester substrates used in flexible device applications. Thin Solid Films, 2010, 519, 325-330. | 0.8 | 63 |
| 64 | Optical sensor with transparent conductive oxides electrodes for microposition detection applications. Thin Solid Films, 2009, 518, 1057-1059. | 0.8 | 6 |
| 65 | The effect of Au and Pt nanoclusters on the structural and hydrogen sensing properties of SnO2 thin films. Thin Solid Films, 2009, 518, 1109-1113. | 0.8 | 35 |
| 66 | Structural analysis of aerosol spray pyrolysis ZnO films exhibiting ultra low ozone detection limits at room temperature. Thin Solid Films, 2009, 518, 1208-1213. | 0.8 | 26 |
| 67 | TCO2008 Illuminates Latest Research in Transparent Conductive Oxides. MRS Bulletin, 2009, 34, 212-212. | 1.7 | 0 |
| 68 | Nano-structural and surface characteristics of non-stoichiometric In<SUB align=right>2O<SUB align=right>3−x thin films. International Journal of Nanotechnology, 2009, 6, 208. | 0.1 | 1 |
| 69 | Optical and structural properties of ZnO for transparent electronics. Thin Solid Films, 2008, 516, 1345-1349. | 0.8 | 74 |
| 70 | 2nd International Symposium on Transparent Conductive Oxides (TCO2008) to Be Held in October 2008. MRS Bulletin, 2008, 33, 709-709. | 1.7 | 0 |
| 71 | ZnO Thin Films for Cantilever Coatings: Structural and Mechanical Properties, Observations of Photoplastic Effect. Sensor Letters, 2008, 6, 558-563. | 0.4 | 2 |
| 72 | On the Road to Inexpensive, sub-ppb, Room Temperature Ozone Detectors. Sensor Letters, 2008, 6, 812-816. | 0.4 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Comparative study of zinc oxide and aluminum doped zinc oxide transparent thin films grown by direct current magnetron sputtering. Thin Solid Films, 2007, 515, 6562-6566. | 0.8 | 179 |
| 74 | Structural characterization of ZnO thin films deposited by dc magnetron sputtering. Thin Solid Films, 2007, 515, 8577-8581. | 0.8 | 36 |
| 75 | Substrate temperature influence on the properties of nanostructured ZnO transparent ultrathin films grown by PLD. Applied Surface Science, 2007, 253, 8141-8145. | 3.1 | 26 |
| 76 | Pure and Nb2O5-doped TiO2 amorphous thin films grown by dc magnetron sputtering at room temperature: Surface and photo-induced hydrophilic conversion studies. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2007, 144, 54-59. | 1.7 | 13 |
| 77 | Correlation of ZnO thin film surface properties with conductivity. Applied Physics A: Materials Science and Processing, 2007, 89, 57-61. | 1.1 | 44 |
| 78 | Ozone sensing properties of ZnO nanostructures grown by the aqueous chemical growth technique. Sensors and Actuators B: Chemical, 2007, 124, 187-191. | 4.0 | 49 |
| 79 | Thickness influence on surface morphology and ozone sensing properties of nanostructured ZnO transparent thin films grown by PLD. Applied Surface Science, 2006, 252, 5351-5354. | 3.1 | 65 |
| 80 | Low temperature indium oxide gas sensors. Sensors and Actuators B: Chemical, 2006, 118, 135-141. | 4.0 | 80 |
| 81 | ZnO transparent thin films for gas sensor applications. Thin Solid Films, 2006, 515, 551-554. | 0.8 | 290 |
| 82 | Indium oxide as a possible tunnel barrier in spintronic devices. Thin Solid Films, 2005, 471, 293-297. | 0.8 | 15 |
| 83 | Zinc oxide as an ozone sensor. Journal of Applied Physics, 2004, 96, 1398-1408. | 1.1 | 181 |
| 84 | Photon sensitive high index metal oxide films. Journal of Physics Condensed Matter, 2004, 16, S3757-S3768. | 0.7 | 8 |
| 85 | Ozone sensing properties of DC-sputtered, c-axis oriented ZnO films at room temperature. Sensors and Actuators B: Chemical, 2003, 96, 76-81. | 4.0 | 40 |
| 86 | Highly Sensitive ZnO Ozone Detectors at Room Temperature. Japanese Journal of Applied Physics, 2003, 42, L435-L437. | 0.8 | 55 |
| 87 | Two-dimensional metallic photonic band-gap crystals fabricated by LIGA. Microsystem Technologies, 2002, 8, 74-77. | 1.2 | 17 |
| 88 | Production and characterization of zinc oxide thin films for room temperature ozone sensing. Thin Solid Films, 2002, 418, 45-50. | 0.8 | 82 |
| 89 | Dependence of the photoreduction and oxidation behavior of indium oxide films on substrate temperature and film thickness. Journal of Applied Physics, 2001, 90, 5382-5387. | 1.1 | 106 |
| 90 | Ozone Sensing Properties of Polycrystalline Indium Oxide Films at Room Temperature. Physica Status Solidi A, 2001, 185, 27-32. | 1.7 | 43 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | The influence of deposition parameters on room temperature ozone sensing properties of InOx films. Sensors and Actuators B: Chemical, 2001, 80, 155-161. | 4.0 | 100 |
| 92 | Gratings in indium oxide film overlayers on ion-exchanged waveguides by excimer laser micromachining. Applied Physics Letters, 2001, 78, 694-696. | 1.5 | 18 |
| 93 | Structural characterization of molecular beam epitaxy grown ZnSe-based layers on GaAs substrates for blueâ€"green laser diodes. Thin Solid Films, 2000, 360, 195-204. | 0.8 | 4 |
| 94 | Laser-machined layer-by-layer metallic photonic band-gap structures. Applied Physics Letters, 1999, 74, 3263-3265. | 1.5 | 15 |
| 95 | Permanent holographic recording in indium oxide thin films using 193 nm excimer laser radiation. Applied Physics A: Materials Science and Processing, 1999, 69, 333-336. | 1.1 | 19 |
| 96 | Structural and chemical characterization of as-deposited microcrystalline indium oxide films prepared by dc reactive magnetron sputtering. Journal of Electronic Materials, 1999, 28, 26-34. | 1.0 | 8 |
| 97 | Study of the ambient optical recording dynamics on sputtered indium oxide thin films. Applied Physics A: Materials Science and Processing, 1998, 66, 651-654. | 1.1 | 8 |
| 98 | 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. | 1.1 | 5 |
| 99 | Fabrication of photonic crystals by deep x-ray lithography. Applied Physics Letters, 1997, 71, 1441-1443. | 1.5 | 129 |
| 100 | Photoreduction and oxidation of asâ€deposited microcrystalline indium oxide. Journal of Applied Physics, 1996, 79, 9349-9352. | 1.1 | 73 |
| 101 | Optical and electrical characterization of high quality Î²-FeSi2 thin films grown by solid phase epitaxy. Applied Surface Science, 1996, 102, 178-183. | 3.1 | 21 |
| 102 | Infrared spectroscopic and electronic transport properties of polycrystalline semiconducting FeSi2 thin films. Journal of Applied Physics, 1996, 80, 962-968. | 1.1 | 35 |
| 103 | Holographic recording in indiumâ€"oxide (In2O3) and indiumâ€"tinâ€"oxide (In2O3:Sn) thin films. Applied Physics Letters, 1996, 69, 2459-2461. | 1.5 | 25 |
| 104 | Structural study of InxGa1-xP/GaAs interfaces grown by MOMBE. Semiconductor Science and Technology, 1992, 7, A127-A130. | 1.0 | 2 |
| 105 | Electrical and structural properties of Ga0.51In0.49P/GaAs heterojunctions grown by metalorganic vaporâ€phase epitaxy. Applied Physics Letters, 1992, 60, 2749-2751. | 1.5 | 23 |
| 106 | Lowâ€temperature dc characteristics of Sâ€and Siâ€doped Ga0.51In0.49P/GaAs high electron mobility transistors grown by metalorganic molecular beam epitaxy. Applied Physics Letters, 1992, 60, 3162-3164. | 1.5 | 18 |
| 107 | Deep level analysis of undoped Gax In1-x P/GaAs single heterojunctions grown by MOMBE and MOVPE. Sensors and Actuators A: Physical, 1992, 33, 63-66. | 2.0 | 4 |
| 108 | Effect of doping on electron traps in metalorganic molecularâ€beam epitaxial GaxIn1â^'xP/GaAs heterostructures. Applied Physics Letters, 1991, 59, 3127-3129. | 1.5 | 37 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Modifications in Î±â€Si:H during thermal annealing:Insituspectroscopic ellipsometry. Journal of Applied Physics, 1991, 70, 2791-2798. | 1.1 | 21 |
| 110 | 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. | 0.8 | 4 |
| 111 | Optical properties and structure of microcrystalline hydrogenated silicon prepared by radioâ€frequency magnetron sputtering. Journal of Applied Physics, 1988, 64, 2389-2398. | 1.1 | 25 |
| 112 | Formation of (100)GaAs on (100)â€‰silicon by laser recrystallization. Applied Physics Letters, 1986, 48, 1516-1518. | 1.5 | 9 |