

Ioannis B Koutselas

List of Publications by Year in descending order

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54
papers

1,998
citations

304368

22
h-index

243296

44
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56
all docs

56
docs citations

56
times ranked

3063
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural, optical and related properties of some natural three- and lower-dimensional semiconductor systems. <i>Synthetic Metals</i> , 1995, 71, 1713-1714.	2.1	260
2	Preparation and structural study of binary phosphate glasses with high calcium and/or magnesium content. <i>Journal of Non-Crystalline Solids</i> , 2004, 347, 69-79.	1.5	206
3	Electronic properties of three- and low-dimensional semiconducting materials with Pb halide and Sn halide units. <i>Journal of Physics Condensed Matter</i> , 1996, 8, 1217-1227.	0.7	186
4	Bioactive glasses in the system $\text{CaO}-\text{B}_2\text{O}_3-\text{P}_2\text{O}_5$: Preparation, structural study and in vitro evaluation. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 390-398.	1.5	184
5	Structural and electronic properties of the natural quantum-well system $(\text{C}_6\text{H}_5\text{CH}_2\text{CH}_2\text{NH}_3)_2\text{SnI}_4$. <i>Solid State Communications</i> , 1994, 91, 695-698.	0.9	127
6	Some new organic-inorganic hybrid semiconductors based on metal halide units: structural, optical and related properties. <i>Advanced Materials for Optics and Electronics</i> , 1999, 9, 265-271.	0.6	94
7	Some Unconventional Organic-Inorganic Hybrid Low-Dimensional Semiconductors and Related Light-Emitting Devices. <i>Journal of Physical Chemistry C</i> , 2011, 115, 8475-8483.	1.5	74
8	Spectroscopic studies of $(\text{C}_{10}\text{H}_{21}\text{NH}_3)_2\text{PbI}_4$, $(\text{CH}_3\text{NH}_3)(\text{C}_{10}\text{H}_{21}\text{NH}_3)_2\text{Pb}_2\text{I}_7$, $(\text{CH}_3\text{NH}_3)_3\text{PbI}_3$, and similar compounds. <i>Synthetic Metals</i> , 1993, 57, 3889-3894.	2.1	62
9	Nanocrystalline/microcrystalline materials based on lead-halide units. <i>Journal of Materials Chemistry</i> , 2012, 22, 8271.	6.7	62
10	Synthesis and Characterization of ZnS Nanosized Semiconductor Particles within Mesoporous Solids. <i>Journal of Physical Chemistry B</i> , 2006, 110, 22339-22345.	1.2	44
11	Mixtures of quasi-two and three dimensional hybrid organic-inorganic semiconducting perovskites for single layer LED. <i>Journal of Alloys and Compounds</i> , 2017, 692, 589-598.	2.8	42
12	Top-down and bottom-up approaches to transparent, flexible and luminescent nitrogen-doped carbon nanodot-clay hybrid films. <i>Nanoscale</i> , 2017, 9, 10256-10262.	2.8	41
13	Successful entrapment of carbon dots within flexible free-standing transparent mesoporous organic-inorganic silica hybrid films for photonic applications. <i>Journal of Physics and Chemistry of Solids</i> , 2017, 103, 190-196.	1.9	39
14	Efficient and Rapid Photocatalytic Reduction of Hexavalent Chromium Achieved by a Phloroglucinol-Derived Microporous Polymeric Organic Framework Solid. <i>Journal of Physical Chemistry C</i> , 2017, 121, 7303-7311.	1.5	36
15	Structural and Theoretical Study of Strontium Borophosphate Glasses Using Raman Spectroscopy and ab Initio Molecular Orbital Method. <i>Journal of Physical Chemistry B</i> , 2017, 121, 4610-4619.	1.2	35
16	Graphene/Carbon Dot Hybrid Thin Films Prepared by a Modified Langmuir-Schaefer Method. <i>ACS Omega</i> , 2017, 2, 2090-2099.	1.6	35
17	Synthesis, characterization and use of highly stable trimethyl sulfonium tin(IV) halide defect perovskites in dye sensitized solar cells. <i>Polyhedron</i> , 2018, 150, 83-91.	1.0	31
18	Time dependent ballistic electron emission microscopy studies of a Au/(100)GaAs interface with a native oxide diffusion barrier. <i>Applied Physics Letters</i> , 1993, 62, 2965-2967.	1.5	30

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19	Optical and related properties of natural one-dimensional semiconductors based on Pbl and Snl units. <i>Synthetic Metals</i> , 1997, 86, 2171-2172.	2.1	26
20	Room temperature light emitting diode based on 2D hybrid organic-inorganic low dimensional perovskite semiconductor. <i>Applied Materials Today</i> , 2016, 5, 128-133.	2.3	25
21	Synthesis, characterization and optoelectronic properties of chemically stable $(\text{CH}_3)_3\text{SPbl}_3\text{A}^{\text{r}} \times \text{Br} \times$ and $(\text{CH}_3)_3\text{SPbl}_3\text{A}^{\text{r}} \times \text{Cl} \times (\text{x} \hat{\text{a}}^{\text{e}} = \hat{\text{a}}^{\text{e}}\text{O}, 1, 2, 3)$ perovskites. <i>Polyhedron</i> , 2018, 140, 67-73.	1.0	25
22	Some unsymmetrical nickel 1,2-dithiolene complexes as candidate materials for optics and electronics. <i>Solid State Sciences</i> , 2008, 10, 1729-1733.	1.5	23
23	Synthesis and Characterization of the Nonlinear Optical Properties of Novel Hybrid Organic-Inorganic Semiconductor Lead Iodide Quantum Wells and Dots. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2766-2775.	1.5	23
24	3D-printed bioactive scaffolds for bone regeneration bearing carbon dots for bioimaging purposes. <i>Smart Materials in Medicine</i> , 2022, 3, 12-19.	3.7	23
25	Low-Temperature Synthesis and Characterization of Gallium Nitride Quantum Dots in Ordered Mesoporous Silica. <i>Journal of Physical Chemistry C</i> , 2012, 116, 1185-1194.	1.5	21
26	Light emitting diodes based on blends of quasi-2D lead halide perovskites stabilized within mesoporous silica matrix. <i>Microporous and Mesoporous Materials</i> , 2017, 249, 165-175.	2.2	19
27	Effect of layer charge and charge distribution on the formation of chitosan - smectite bionanocomposites. <i>Applied Clay Science</i> , 2020, 190, 105583.	2.6	19
28	Synthesis and characterization of low dimensional ZnS- and PbS-semiconductor particles on a montmorillonite template. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 14236.	1.3	18
29	Graphite/SiO ₂ film electrode modified with hybrid organic-inorganic perovskites: Synthesis, optical, electrochemical properties and application in electrochemical sensing of losartan. <i>Journal of Solid State Chemistry</i> , 2019, 273, 17-24.	1.4	14
30	Effects of organic moieties on the photoluminescence spectra of perovskite-type tin bromide based compounds. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 79, 1-6.	1.9	13
31	Flexible, cathodoluminescent and free standing mesoporous silica films with entrapped quasi-2D perovskites. <i>Applied Surface Science</i> , 2017, 400, 434-439.	3.1	13
32	Synthesis and Characterization of Lead-Free $(\text{CH}_3)_3\text{SSnl}_3$ 1-D Perovskite. <i>Journal of Electronic Materials</i> , 2019, 48, 7533-7538.	1.0	13
33	Excitonic Bands in the Spectra of Some Organic-Inorganic Hybrid Compounds Based on Metal Halide Units. <i>Monatshefte für Chemie</i> , 2001, 132, 113-119.	0.9	12
34	A chemical sensor for CBr_4 based on quasi-2D and 3D hybrid organic-inorganic perovskites immobilized on TiO_2 films. <i>Materials Chemistry Frontiers</i> , 2018, 2, 730-740.	3.2	12
35	Growth of Niobium Thin Films on Si Substrates by Pulsed Nd:YAG Laser Deposition. <i>Journal of Materials Science and Technology</i> , 2015, 31, 784-789.	5.6	11
36	Design and evaluation of polymer matrices for the encapsulation of CdSe/ZnS quantum dots in photonic nanocomposite thin films. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2016, 54, 552-560.	2.4	11

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37	Magnetic/SiO ₂ nanocomposite thin films prepared by sol-gel dip coating modified method. Thin Solid Films, 2011, 520, 159-165.	0.8	9
38	Energy transfer yellow light emitting diodes based on blends of quasi-2D perovskites. Journal of Luminescence, 2017, 188, 567-576.	1.5	9
39	New configuration of metallic photocathodes prepared by pulsed laser deposition. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 724, 72-75.	0.7	8
40	Polystyrene based perovskite light emitting diode. Applied Materials Today, 2018, 12, 15-20.	2.3	8
41	Naphthalene-based periodic nanoporous organosilicas: I. Synthesis and structural characterization. Microporous and Mesoporous Materials, 2012, 158, 324-331.	2.2	7
42	One-pot synthesis and transfer of PMMA/Ag photonic nanocomposites by pulsed laser deposition. Applied Physics A: Materials Science and Processing, 2015, 120, 707-716.	1.1	7
43	Synthesis and characterization of calcium oxyborate with bimodal porosity. Journal of Sol-Gel Science and Technology, 2016, 78, 339-346.	1.1	7
44	Encapsulation and protection of carbon dots within MCM-41 material. Journal of Sol-Gel Science and Technology, 2017, 82, 795-800.	1.1	7
45	Defect Variants Based on the 2D Hybrid Organic-Inorganic Low-Dimensional Semiconductor (4-Fluoro-phenethylamine- <i>h</i>) ₂ PbBr ₄ for Fabrication of Single-Layer Deep Blue LEDs. ACS Applied Nano Materials, 2018, 1, 2129-2142.	2.4	7
46	Fully Reversible Electrically Induced Photochromic-Like Behaviour of Ag:TiO ₂ Thin Films. Coatings, 2020, 10, 130.	1.2	6
47	Some Air-stable Unsymmetrical Nickel 1,2-Dithiolenes with Extended Tetrathiafulvalenedithiolato Ligands. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2007, 62, 1481-1486.	0.3	3
48	Micro-fabrication by laser radiation forces: A direct route to reversible free-standing three-dimensional structures. Optics Express, 2012, 20, 24735.	1.7	3
49	Synthesis, Crystal Structure, and Broadband Emission of (CH ₃) ₃ SSnCl ₃ . Inorganic Chemistry, 2022, 61, 4769-4777.	1.9	3
50	Excitonic Bands in the Spectra of Some Organic-Inorganic Hybrid Compounds Based on Metal Halide Units. , 2001, , 113-119.		1
51	NiCl ₂ /SiO ₂ sol-gel material for ammonia sensing. , 2006, 6377, 66.		1
52	LEDs and Other Electronic Devices Based on Perovskite Materials. Materials Horizons, 2020, , 289-314.	0.3	1
53	Optical Sensor Sensitivity Enhancement by Use of Diffraction Gratings. , 2010, , .		0
54	Synthesis, characterization and optoelectronic properties of 2D hybrid RPbX ₄ semiconductors based on an isomer mixture of hexanediamine-based dications. Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences, 2021, .	0.3	0