

David G Calatayud

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

56
papers

559
citations

15
h-index

20
g-index

61
ext. papers

668
ext. citations

5.5
avg, IF

3.76
L-index

#	Paper	IF	Citations
56	Nano-Theranostics for the Sensing, Imaging and Therapy of Prostate Cancers.. <i>Frontiers in Chemistry</i> , 2022 , 10, 830133	5	0
55	Structural variety, fluorescence and photocatalytic activity of dissymmetric thiosemicarbazone complexes. <i>Polyhedron</i> , 2022 , 115945	2.7	
54	A Graphene-Assembled Film Based MIMO Antenna Array with High Isolation for 5G Wireless Communication. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2382	2.6	2
53	Hybrid Hierarchical Heterostructures of Nanoceramic Phosphors as Imaging Agents for Multiplexing and Living Cancer Cells Translocation. <i>ACS Applied Bio Materials</i> , 2021 , 4, 4105-4118	4.1	3
52	Peptide-driven bio-assisted removal of metal oxide nanoparticles from an aqueous suspension: A novel strategy for water remediation. <i>Journal of Cleaner Production</i> , 2021 , 285, 124852	10.3	2
51	Self-Assembled Materials Incorporating Functional Porphyrins and Carbon Nanoplatforms as Building Blocks for Photovoltaic Energy Applications. <i>Frontiers in Chemistry</i> , 2021 , 9, 727574	5	0
50	Amphiphilic engineering of reduced graphene oxides using a carbon nitride coating for superior removal of organic pollutants from wastewater. <i>Carbon</i> , 2021 , 184, 479-491	10.4	0
49	Tailoring the visible light photoactivity of un-doped defective TiO anatase nanoparticles through a simple two-step solvothermal process. <i>Nanotechnology</i> , 2020 , 31, 045603	3.4	2
48	Radio- and nano-chemistry of aqueous Ga(iii) ions anchored onto graphene oxide-modified complexes. <i>Nanoscale</i> , 2020 , 12, 6603-6608	7.7	5
47	Shedding Light Onto the Nature of Iron Decorated Graphene and Graphite Oxide Nanohybrids for CO Conversion at Atmospheric Pressure. <i>ChemistryOpen</i> , 2020 , 9, 242-252	2.3	1
46	Nanostructure stabilization by low-temperature dopant pinning in multiferroic BiFeO ₃ -based thin films produced by aqueous chemical solution deposition. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4234-4245	7.1	7
45	Proteomic investigation on bio-corona of Au, Ag and Fe nanoparticles for the discovery of triple negative breast cancer serum protein biomarkers. <i>Journal of Proteomics</i> , 2020 , 212, 103581	3.9	24
44	Promoting mercury removal from desulfurization slurry via S-doped carbon nitride/graphene oxide 3D hierarchical framework. <i>Separation and Purification Technology</i> , 2020 , 239, 116515	8.3	25
43	Two-step doping approach releasing the piezoelectric response of BiFeO ₃ bulk ceramics co-doped with titanium and samarium. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2020 , 59, 81-87	1.9	0
42	A practical graphitic carbon nitride (g-C ₃ N ₄) based fluorescence sensor for the competitive detection of trithiocyanuric acid and mercury ions. <i>Dyes and Pigments</i> , 2019 , 170, 107476	4.6	14
41	Highly photoactive TiO ₂ microspheres for photocatalytic production of hydrogen. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 24653-24666	6.7	12
40	Self- and Directed-Assembly of Metallic and Nonmetallic Fluorophors: Considerations into Graphene and Graphene Oxides for Sensing and Imaging Applications 2019 , 469-505		1

39	Directed Molecular Stacking for Engineered Fluorescent Three-Dimensional Reduced Graphene Oxide and Coronene Frameworks. <i>ChemistryOpen</i> , 2019 , 8, 1383-1398	2.3	4
38	Encapsulation of Cadmium Selenide Nanocrystals in Biocompatible Nanotubes: DFT Calculations, X-ray Diffraction Investigations, and Confocal Fluorescence Imaging. <i>ChemistryOpen</i> , 2018 , 7, 144-158	2.3	15
37	Synthesis, Radiolabelling and In Vitro Imaging of Multifunctional Nanoceramics. <i>ChemNanoMat</i> , 2018 , 4, 361-372	3.5	5
36	Fluorescence detection and removal of copper from water using a biobased and biodegradable 2D soft material. <i>Chemical Communications</i> , 2018 , 54, 184-187	5.8	38
35	Titanium doping of BiFeO ₃ ceramics and identification of minor phases by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 884-890	2.3	7
34	Fluorescence-Lifetime Imaging and Super-Resolution Microscopies Shed Light on the Directed- and Self-Assembly of Functional Porphyrins onto Carbon Nanotubes and Flat Surfaces. <i>Chemistry - A European Journal</i> , 2017 , 23, 9772-9789	4.8	14
33	Ga-doped ZnO self-assembled nanostructures obtained by microwave-assisted hydrothermal synthesis: Effect on morphology and optical properties. <i>Journal of Alloys and Compounds</i> , 2017 , 722, 920-927	5.7	8
32	Carbon Nanotubes and Related Nanohybrids Incorporating Inorganic Transition Metal Compounds and Radioactive Species as Synthetic Scaffolds for Nanomedicine Design 2017 , 245-327		3
31	Behavior of Supramolecular Assemblies of Radiometal-Filled and Fluorescent Carbon Nanocapsules In Vitro and In Vivo. <i>CheM</i> , 2017 , 3, 437-460	16.2	16
30	Surface Modifications: Interactions between an Aryl Thioacetate-Functionalized Zn(II) Porphyrin and Graphene Oxide (Adv. Funct. Mater. 5/2016). <i>Advanced Functional Materials</i> , 2016 , 26, 634-634	15.6	1
29	The Reactivity of Diphenyllead(IV) Dichloride with Dissymmetric Thiosemicarbazone Ligands: Obtaining Monomers, Coordination Polymers, and an Organoplumboxane. <i>European Journal of Inorganic Chemistry</i> , 2016 , 2016, 1044-1053	2.3	3
28	Interactions between an Aryl Thioacetate-Functionalized Zn(II) Porphyrin and Graphene Oxide. <i>Advanced Functional Materials</i> , 2016 , 26, 687-697	15.6	11
27	Labeling of Graphene, Graphene Oxides, and of Their Congeners. <i>Advances in Inorganic Chemistry</i> , 2016 , 68, 397-440	2.1	4
26	Thermally Reduced Graphene Oxide Nanohybrids of Chiral Functional Naphthalenediimides for Prostate Cancer Cells Bioimaging. <i>Advanced Functional Materials</i> , 2016 , 26, 5641-5657	15.6	21
25	Applications of "Hot" and "Cold" Bis(thiosemicarbazonato) Metal Complexes in Multimodal Imaging. <i>Chemical Record</i> , 2016 , 16, 1380-97	6.6	14
24	Investigations into the reactivity of lithium indenyl with alpha diimines with chlorinated backbones and formation of related functional ligands and metal complexes. <i>Polyhedron</i> , 2016 , 119, 532-547	2.7	0
23	Controlling the morphology of TiO ₂ nanocrystals with different capping agents. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2015 , 54, 159-165	1.9	19
22	Metallic nanoparticles as synthetic building blocks for cancer diagnostics: from materials design to molecular imaging applications. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 5657-5672	7.3	29

21	Zinc and mercury complexes of benzil bis(4-methyl-3-thiosemicarbazone). <i>Polyhedron</i> , 2015 , 101, 133-138.7		6
20	Synthesis and Characterization of Blue Faceted Anatase Nanoparticles through Extensive Fluorine Lattice Doping. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 21243-21250	3.8	24
19	Influence of nickel in the hydrogen production activity of TiO ₂ . <i>Applied Catalysis B: Environmental</i> , 2014 , 152-153, 192-201	21.8	34
18	Progressive degradation of high voltage ZnO commercial varistors upon Fe ₂ O ₃ doping. <i>Ceramics International</i> , 2014 , 40, 13395-13400	5.1	8
17	Microwave-induced fast crystallization of amorphous hierarchical anatase microspheres. <i>Nanoscale Research Letters</i> , 2014 , 9, 273	5	10
16	Facile synthesis of hierarchical anatase microspheres. <i>Journal of Alloys and Compounds</i> , 2013 , 551, 481-487	4.7	4
15	Highly photoactive anatase nanoparticles obtained using trifluoroacetic acid as an electron scavenger and morphological control agent. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14358	13	11
14	Synthesis of metastable Bi ₆ Ti ₅ WO ₂₂ phase by the mechanochemical method. <i>Materials Letters</i> , 2013 , 94, 58-60	3.3	4
13	Synthesis of hybrid ligands derived from benzil, thiosemicarbazide and heteroaromatic hydrazides and their reactivity with group 12 metals. <i>Polyhedron</i> , 2013 , 54, 39-46	2.7	6
12	A Fluorescent Dissymmetric Thiosemicarbazone Ligand Containing a Hydrazonequinoline Arm and Its Complexes with Cadmium and Mercury. <i>European Journal of Inorganic Chemistry</i> , 2013 , 2013, 80-90	2.3	17
11	Soft solution fluorine-free synthesis of anatase nanoparticles with tailored morphology. <i>Ceramics International</i> , 2013 , 39, 1195-1202	5.1	19
10	Microstructure Engineering to Drastically Reduce the Leakage Currents of High Voltage ZnO Varistor Ceramics. <i>Journal of the American Ceramic Society</i> , 2012 , 95, 3043-3049	3.8	4
9	Complexes of group 12 metals containing a hybrid thiosemicarbazone-pyridylhydrazone ligand. <i>Inorganica Chimica Acta</i> , 2012 , 381, 150-161	2.7	18
8	Preparaci3n de Materiales Fotocatalizadores Basados en Bi ₄ Ti ₃ O ₁₂ Dopados con Metales de Transici3n. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2012 , 51, 55-60	1.9	6
7	Reactivity of benzil bis(4-methyl-3-thiosemicarbazone) with cadmium nitrate. Crystal structure of [Cd(LMe ₂ H ₄)(NO ₃) ₂][Cd(LMe ₂ H ₄)(NO ₃)(H ₂ O)]NO ₃ ·H ₂ O. <i>Polyhedron</i> , 2008 , 27, 2277-2284	2.7	10
6	Unexpected differences in the reactivity between MPh ₂ Cl ₂ (M = Pb or Sn) and benzil bis(thiosemicarbazone). X-ray crystal structure of benzil bis(thiosemicarbazone)lead(II). <i>Polyhedron</i> , 2008 , 27, 2507-2512	2.7	13
5	Facile and Selective Synthesis of 4-Methyl- and 4-Phenylthiosemicarbazide (=N-Methyl- and N-Phenylhydrazinecarbothioamide) Derivatives of Benzil (=1,2-Diphenylethane-1,2-dione). <i>Helvetica Chimica Acta</i> , 2007 , 90, 2201-2216	2	5
4	Tin(IV) Complexes with Thiosemicarbazide and 4-Methyl-3-thiosemicarbazide Derivatives. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2007 , 633, 1925-1931	1.3	3

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| 3 | Diphenyllead(IV) chloride complexes with benzilthiosemicarbazones. The first bis(thiosemicarbazone) derivatives. <i>Inorganic Chemistry</i> , 2007 , 46, 10434-43 | 5.1 | 22 |
| 2 | The First Complex of Benzilbis(thiosemicarbazone) acting as Bridging Ligand only through the Sulfur Atom. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2006 , 632, 2471-2474 | 1.3 | 5 |
| 1 | Structural Trends in Divalent Benzil Bis(thiosemicarbazone) Complexes. <i>European Journal of Inorganic Chemistry</i> , 2005 , 2005, 4401-4409 | 2.3 | 19 |