David G Calatayud

List of Publications by Year
in descending order

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59	808	471509	580821
papers	citations	17 h-index	25 g-index

61	61	61	1178
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fluorescence detection and removal of copper from water using a biobased and biodegradable 2D soft material. Chemical Communications, 2018, 54, 184-187.	4.1	53
2	Proteomic investigation on bio-corona of Au, Ag and Fe nanoparticles for the discovery of triple negative breast cancer serum protein biomarkers. Journal of Proteomics, 2020, 212, 103581.	2.4	41
3	Influence of nickel in the hydrogen production activity of TiO2. Applied Catalysis B: Environmental, 2014, 152-153, 192-201.	20.2	39
4	Metallic nanoparticles as synthetic building blocks for cancer diagnostics: from materials design to molecular imaging applications. Journal of Materials Chemistry B, 2015, 3, 5657-5672.	5.8	37
5	Promoting mercury removal from desulfurization slurry via S-doped carbon nitride/graphene oxide 3D hierarchical framework. Separation and Purification Technology, 2020, 239, 116515.	7.9	35
6	Thermally Reduced Graphene Oxide Nanohybrids of Chiral Functional Naphthalenediimides for Prostate Cancer Cells Bioimaging. Advanced Functional Materials, 2016, 26, 5641-5657.	14.9	31
7	A practical graphitic carbon nitride (g-C3N4) based fluorescence sensor for the competitive detection of trithiocyanuric acid and mercury ions. Dyes and Pigments, 2019, 170, 107476.	3.7	28
8	Synthesis and Characterization of Blue Faceted Anatase Nanoparticles through Extensive Fluorine Lattice Doping. Journal of Physical Chemistry C, 2015, 119, 21243-21250.	3.1	27
9	Controlling the morphology of TiO2 nanocrystals with different capping agents. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2015, 54, 159-165.	1.9	25
10	Diphenyllead(IV) Chloride Complexes with Benzilthiosemicarbazones. The First Bis(Thiosemicarbazone) Derivatives. Inorganic Chemistry, 2007, 46, 10434-10443.	4.0	24
11	Complexes of group 12 metals containing a hybrid thiosemicarbazone-pyridylhydrazone ligand. Inorganica Chimica Acta, 2012, 381, 150-161.	2.4	22
12	Behavior of Supramolecular Assemblies of Radiometal-Filled and Fluorescent Carbon Nanocapsules InÂVitro and InÂVivo. CheM, 2017, 3, 437-460.	11.7	22
13	Soft solution fluorine-free synthesis of anatase nanoparticles with tailored morphology. Ceramics International, 2013, 39, 1195-1202.	4.8	21
14	A Fluorescent Dissymmetric Thiosemicarbazone Ligand Containing a Hydrazonequinoline Arm and Its Complexes with Cadmium and Mercury. European Journal of Inorganic Chemistry, 2013, 2013, 80-90.	2.0	20
15	Structural Trends in Divalent Benzil Bis(thiosemicarbazone) Complexes. European Journal of Inorganic Chemistry, 2005, 2005, 4401-4409.	2.0	19
16	Applications of â€œHotâ€•and â€œColdâ€•Bis(thiosemicarbazonato) Metal Complexes in Multimodal Imaging. Chemical Record, 2016, 16, 1380-1397.	5.8	18
17	Highly photoactive TiO2 microspheres for photocatalytic production of hydrogen. International Journal of Hydrogen Energy, 2019, 44, 24653-24666.	7.1	18
18	Interactions between an Aryl Thioacetateâ€Functionalized Zn(II) Porphyrin and Graphene Oxide. Advanced Functional Materials, 2016, 26, 687-697.	14.9	17

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19	Fluorescenceâ€Lifetime Imaging and Superâ€Resolution Microscopies Shed Light on the Directedâ€and Selfâ€Assembly of Functional Porphyrins onto Carbon Nanotubes and Flat Surfaces. Chemistry - A European Journal, 2017, 23, 9772-9789.	3.3	16
20	Encapsulation of Cadmium Selenide Nanocrystals in Biocompatible Nanotubes: DFT Calculations, Xâ€ray Diffraction Investigations, and Confocal Fluorescence Imaging. ChemistryOpen, 2018, 7, 144-158.	1.9	15
21	Ga-doped ZnO self-assembled nanostructures obtained by microwave-assisted hydrothermal synthesis: Effect on morphology and optical properties. Journal of Alloys and Compounds, 2017, 722, 920-927.	5.5	14
22	A Graphene-Assembled Film Based MIMO Antenna Array with High Isolation for 5G Wireless Communication. Applied Sciences (Switzerland), 2021, 11, 2382.	2.5	14
23	Unexpected differences in the reactivity between MPh2Cl2 (M=Pb or Sn) and benzil bis(thiosemicarbazone). X-ray crystal structure of benzil bis(thiosemicarbazonate)lead(II). Polyhedron, 2008, 27, 2507-2512.	2.2	13
24	Highly photoactive anatase nanoparticles obtained using trifluoroacetic acid as an electron scavenger and morphological control agent. Journal of Materials Chemistry A, 2013, 1, 14358.	10.3	13
25	Synthesis, Radiolabelling and In Vitro Imaging of Multifunctional Nanoceramics. ChemNanoMat, 2018, 4, 361-372.	2.8	13
26	Ultrafast Macroscopic Assembly of High-Strength Graphene Oxide Membranes by Implanting an Interlaminar Superhydrophilic Aisle. ACS Nano, 2022, 16, 3934-3942.	14.6	13
27	Microwave-induced fast crystallization of amorphous hierarchical anatase microspheres. Nanoscale Research Letters, 2014, 9, 273.	5.7	12
28	Nanostructure stabilization by low-temperature dopant pinning in multiferroic BiFeO₃-based thin films produced by aqueous chemical solution deposition. Journal of Materials Chemistry C, 2020, 8, 4234-4245.	5.5	12
29	Radio- and nano-chemistry of aqueous Ga(<scp>iii</scp>) ions anchored onto graphene oxide-modified complexes. Nanoscale, 2020, 12, 6603-6608.	5.6	11
30	Reactivity of benzil bis(4-methyl-3-thiosemicarbazone) with cadmium nitrate. Crystal structure of [Cd(LMe2H4)(NO3)2][Cd(LMe2H4)(NO3)(H2O)]NO3Â·H2O. Polyhedron, 2008, 27, 2277-2284.	2.2	10
31	Synthesis of hybrid ligands derived from benzil, thiosemicarbazide and heteroaromatic hydrazides and their reactivity with group 12 metals. Polyhedron, 2013, 54, 39-46.	2.2	10
32	Zinc and mercury complexes of benzil bis(4-methyl-3-thiosemicarbazone). Polyhedron, 2015, 101, 133-138.	2.2	10
33	Biocompatible Probes Based on Rare-Earth Doped Strontium Aluminates with Long-Lasting Phosphorescent Properties for In Vitro Optical IMAGING. International Journal of Molecular Sciences, 2022, 23, 3410.	4.1	10
34	Carbon Nanotubes and Related Nanohybrids Incorporating Inorganic Transition Metal Compounds and Radioactive Species as Synthetic Scaffolds for Nanomedicine Design. , 2017, , 245-327.		9
35	Progressive degradation of high voltage ZnO commercial varistors upon Fe2O3 doping. Ceramics International, 2014, 40, 13395-13400.	4.8	8
36	Titanium doping of BiFeO₃ ceramics and identification of minor phases by Raman spectroscopy. Journal of Raman Spectroscopy, 2017, 48, 884-890.	2.5	8

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37	Hybrid Hierarchical Heterostructures of Nanoceramic Phosphors as Imaging Agents for Multiplexing and Living Cancer Cells Translocation. ACS Applied Bio Materials, 2021, 4, 4105-4118.	4.6	7
38	Thin film processing of multiferroic BiFeO3: From sophistication to simplicity. A review. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2022, 61, 708-732.	1.9	7
39	Amphiphilic engineering of reduced graphene oxides using a carbon nitride coating for superior removal of organic pollutants from wastewater. Carbon, 2021, 184, 479-491.	10.3	7
40	PreparaciÃ³n de Materiales Fotocatalizadores Basados en Bi₄Ti₃O₁₂ Dopados con Metales de TransiciÃ³n. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2012, 51, 55-60.	1.9	7
41	Facile and Selective Synthesis of 4â€Methylâ€and 4â€Phenylthiosemicarbazide (=Nâ€Methylâ€and) Tj ETQq1 1 0.784314 rgBT Chimica Acta, 2007, 90, 2201-2216.	1.6	6
42	Microstructure Engineering to Drastically Reduce the Leakage Currents of High Voltage <scp><scp>ZnO</scp></scp> Varistor Ceramics. Journal of the American Ceramic Society, 2012, 95, 3043-3049.	3.8	6
43	Labeling of Graphene, Graphene Oxides, and of Their Congeners. Advances in Inorganic Chemistry, 2016, 68, 397-440.	1.0	6
44	Structural variety, fluorescence and photocatalytic activity of dissymmetric thiosemicarbazone complexes. Polyhedron, 2022, 223, 115945.	2.2	6
45	The First Complex of Benzilbis(thiosemicarbazone) acting as Bridging Ligand only through the Sulfur Atom. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2006, 632, 2471-2474.	1.2	5
46	Directed Molecular Stacking for Engineered Fluorescent Threeâ€Dimensional Reduced Graphene Oxide and Coronene Frameworks. ChemistryOpen, 2019, 8, 1383-1398.	1.9	5
47	Facile synthesis of hierarchical anatase microspheres. Journal of Alloys and Compounds, 2013, 551, 481-484.	5.5	4
48	Synthesis of metastable Bi6Ti5WO22 phase by the mechanochemical method. Materials Letters, 2013, 94, 58-60.	2.6	4
49	The Reactivity of Diphenyllead(IV) Dichloride with Dissymmetric Thiosemicarbazone Ligands: Obtaining Monomers, Coordination Polymers, and an Organoplumboxane. European Journal of Inorganic Chemistry, 2016, 2016, 1044-1053.	2.0	4
50	Tailoring the visible light photoactivity of un-doped defective TiO2 anatase nanoparticles through a simple two-step solvothermal process. Nanotechnology, 2019, 31, 045603.	2.6	4
51	Shedding Light Onto the Nature of Iron Decorated Graphene and Graphite Oxide Nanohybrids for CO₂ Conversion at Atmospheric Pressure. ChemistryOpen, 2020, 9, 242-252.	1.9	4
52	Nano-Theranostics for the Sensing, Imaging and Therapy of Prostate Cancers. Frontiers in Chemistry, 2022, 10, 830133.	3.6	4
53	Tin(IV) Complexes with Thiosemicarbazide and 4â€Methylâ€3â€thiosemicarbazide Derivatives. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 1925-1931.	1.2	3
54	Self-Assembled Materials Incorporating Functional Porphyrins and Carbon Nanoplatforms as Building Blocks for Photovoltaic Energy Applications. Frontiers in Chemistry, 2021, 9, 727574.	3.6	3

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55	Two-step doping approach releasing the piezoelectric response of BiFeO3 bulk ceramics co-doped with titanium and samarium. Boletin De La Sociedad Espanola De Ceramica Y Vidrio, 2020, 59, 81-87.	1.9	2
56	Peptide-driven bio-assisted removal of metal oxide nanoparticles from an aqueous suspension: A novel strategy for water remediation. Journal of Cleaner Production, 2021, 285, 124852.	9.3	2
57	Investigations into the reactivity of lithium indenyl with alpha diimines with chlorinated backbones and formation of related functional ligands and metal complexes. Polyhedron, 2016, 119, 532-547.	2.2	1
58	Surface Modifications: Interactions between an Aryl Thioacetateâ€Functionalized Zn(II) Porphyrin and Graphene Oxide (Adv. Funct. Mater. 5/2016). Advanced Functional Materials, 2016, 26, 634-634.	14.9	1
59	Frontispiece: Fluorescenceâ€Lifetime Imaging and Superâ€Resolution Microscopies Shed Light on the Directedâ€and Selfâ€Assembly of Functional Porphyrins onto Carbon Nanotubes and Flat Surfaces. Chemistry - A European Journal, 2017, 23, .	3.3	0