Duarte Ananias

List of Publications by Citations

76 papers	4,690 citations	31 h-index	68 g-index
93 ext. papers	5,021 ext. citations	8.2 avg, IF	5.44 L-index

#	Paper	IF	Citations
76	Luminescent multifunctional lanthanides-based metal-organic frameworks. *Chemical Society Reviews*, **2011**, 40, 926-40	58.5	1324
75	Metal-organic nanoporous structures with anisotropic photoluminescence and magnetic properties and their use as sensors. *Angewandte Chemie - International Edition*, **2008**, 47, 1080-3	16.4	367
74	A miniaturized linear pH sensor based on a highly photoluminescent self-assembled europium(III) metal-organic framework. *Angewandte Chemie - International Edition*, **2009**, 48, 6476-9	16.4	293
73	All-in-one optical heater-thermometer nanoplatform operative from 300 to 2000 k based on Er(3+) emission and blackbody radiation. *Advanced Materials*, **2013**, 25, 4868-74	24	219
72	Lanthanide□Organic Framework Nanothermometers Prepared by Spray-Drying. *Advanced Functional Materials*, **2015**, 25, 2824-2830	15.6	210
71	Visible-Light Excited Luminescent Thermometer Based on Single Lanthanide Organic Frameworks. *Advanced Functional Materials*, **2016**, 26, 8677-8684	15.6	143
70	Photoluminescent thermometer based on a phase-transition lanthanide silicate with unusual structural disorder. *Journal of the American Chemical Society*, **2015**, 137, 3051-8	16.4	112
69	Excitation of magnetic dipole transitions at optical frequencies. *Physical Review Letters*, **2015**, 114, 163903	7.4	99
68	Photoluminescent layered lanthanide silicates. *Journal of the American Chemical Society*, **2004**, 126, 10416-7	16.4	96
67	Novel microporous europium and terbium silicates. *Journal of the American Chemical Society*, **2001**, 123, 5735-42	16.4	94
66	Multi-functional rare-earth hybrid layered networks: photoluminescence and catalysis studies. *Journal of Materials Chemistry*, **2009**, 19, 2618		85
65	Influence of a porous MOF support on the catalytic performance of Eu-polyoxometalate based materials: desulfurization of a model diesel. *Catalysis Science and Technology*, **2016**, 6, 1515-1522	5.5	79
64	Metal□Organic Nanoporous Structures with Anisotropic Photoluminescence and Magnetic Properties and Their Use as Sensors. *Angewandte Chemie*, **2008**, 120, 1096-1099	3.6	69
63	Novel microporous lanthanide silicates with tobermorite-like structure. *Journal of the American Chemical Society*, **2003**, 125, 14573-9	16.4	67
62	Photoluminescent Lanthanide□Organic 2D Networks: A Combined Synchrotron Powder X-ray Diffraction and Solid-State NMR Study. *Chemistry of Materials*, **2007**, 19, 3527-3538	9.6	65
61	Effects of Phonon Confinement on Anomalous Thermalization, Energy Transfer, and Upconversion in Ln3+-Doped Gd2O3 Nanotubes. *Advanced Functional Materials*, **2010**, 20, 624-634	15.6	56
60	Emission-Decay Curves, Energy-Transfer and Effective-Refractive Index in Gd2O3:Eu3+ Nanorods. *Journal of Physical Chemistry C*, **2011**, 115, 15297-15303	3.8	52

59	Molecule-like Eu3+-dimers embedded in an extended system exhibit unique photoluminescence properties. *Journal of the American Chemical Society*, **2009**, 131, 8620-6	16.4	52
58	Thermal transformation of a layered multifunctional network into a metal-organic framework based on a polymeric organic linker. *Journal of the American Chemical Society*, **2011**, 133, 15120-38	16.4	51
57	Excimer Formation in a Terbium Metal□Organic Framework Assists Luminescence Thermometry. *Chemistry of Materials*, **2017**, 29, 9547-9554	9.6	50
56	(Gd,Yb,Tb)PO4 up-conversion nanocrystals for bimodal luminescence-MR imaging. *Nanoscale*, **2012**, 4, 5154-62	7.7	48
55	Multi-functional metal□organic frameworks assembled from a tripodal organic linker. *Journal of Materials Chemistry*, **2012**, 22, 18354		48
54	Lanthanide-polyphosphonate coordination polymers combining catalytic and photoluminescence properties. *Chemical Communications*, **2013**, 49, 6400-2	5.8	46
53	Cryogenic Nanothermometer Based on the MIL-103(Tb,Eu) Metal□Organic Framework. *European Journal of Inorganic Chemistry*, **2016**, 2016, 1967-1971	2.3	43
52	Ratiometric mixed Eu□Tb metal□organic framework as a new cryogenic luminescent thermometer. *Journal of Materials Chemistry C*, **2017**, 5, 10933-10937	7.1	41
51	Multifunctional micro- and nanosized metal□organic frameworks assembled from bisphosphonates and lanthanides. *Journal of Materials Chemistry C*, **2014**, 2, 3311	7.1	40
50	Energy-transfer from Gd(III) to Tb(III) in (Gd,Yb,Tb)PO4 nanocrystals. *Physical Chemistry Chemical Physics*, **2013**, 15, 15565-71	3.6	39
49	A Miniaturized Linear pH Sensor Based on a Highly Photoluminescent Self-Assembled Europium(III) Metal□Organic Framework. *Angewandte Chemie*, **2009**, 121, 6598-6601	3.6	35
48	Unusual full-colour phosphors: Na3LnSi3O9. *Optical Materials*, **2006**, 28, 582-586	3.3	33
47	Crystal structure and temperature-dependent luminescence of a heterotetranuclear sodium-europium(III) □diketonate complex. *Dalton Transactions*, **2015**, 44, 488-92	4.3	32
46	Synthesis and characterization of polymorphs of photoluminescent Eu(III)-(2,5-furandicarboxylic acid, oxalic acid) MOFs. *Journal of Solid State Chemistry*, **2013**, 204, 321-328	3.3	31
45	Optical detection of solid-state chiral structures with unpolarized light and in the absence of external fields. *Angewandte Chemie - International Edition*, **2006**, 45, 7938-42	16.4	30
44	The first examples of X-ray phosphors, and C-band infrared emitters based on microporous lanthanide silicates. *Journal of Alloys and Compounds*, **2004**, 374, 219-222	5.7	29
43	Multifunctional Sodium Lanthanide Silicates: From Blue Emitters and Infrared S-Band Amplifiers to X-Ray Phosphors. *Advanced Materials*, **2003**, 15, 980-985	24	28
42	Building Light-Emitting Metal-Organic Frameworks by Post-Synthetic Modification. *ChemistrySelect*, **2017**, 2, 136-139	1.8	27

41	Evolution of photoluminescence across dimensionality in lanthanide silicates. *Journal of Physical Chemistry B*, **2007**, 111, 3576-82	3.4	26
40	Synthesis and Characterization of Er(III) and Y(III) Sodium Silicates: Na3ErSi3O9, a New Infrared Emitter. *Chemistry of Materials*, **2002**, 14, 1767-1772	9.6	25
39	Electronic, Structural and Functional Versatility in Tetrathiafulvalene-Lanthanide Metal-Organic Frameworks. *Chemistry - A European Journal*, **2019**, 25, 12636-12643	4.8	24
38	Photoluminescent Layered Lanthanide Silicate Nanoparticles. *Chemistry of Materials*, **2008**, 20, 205-212	9.6	24
37	Near-Infrared Ratiometric Luminescent Thermometer Based on a New Lanthanide Silicate. *Chemistry - A European Journal*, **2018**, 24, 11926-11935	4.8	24
36	Mixed-Metal d-f Phosphonate Frameworks Photoluminescence and Magnetic Properties. *European Journal of Inorganic Chemistry*, **2011**, 2011, 2035-2044	2.3	23
35	Structure, topology, gas adsorption and photoluminescence of multifunctional porous RE3+-furan-2,5-dicarboxylate metal organic frameworks. *Microporous and Mesoporous Materials*, **2014**, 188, 172-181	5.3	22
34	Europium Polyoxometalates Encapsulated in Silica Nanoparticles Characterization and Photoluminescence Studies. *European Journal of Inorganic Chemistry*, **2013**, 2013, 2877-2886	2.3	21
33	NMR relaxivity of Ln3+-based zeolite-type materials. *Journal of Materials Chemistry*, **2005**, 15, 3832		21
32	Photoluminescence and local structure of Eu(III)-doped zirconium silicates. *Journal of Alloys and Compounds*, **2004**, 374, 185-189	5.7	21
31	Luminescence properties of lanthanide-containing layered double hydroxides. *Microporous and Mesoporous Materials*, **2016**, 226, 209-220	5.3	20
30	Synchrotron powder structure of a new layered lanthanide-organic network. *Zeitschrift F Kristallographie*, **2009**, 224,		20
29	Photoluminescent layered Y(III) and Tb(III) silicates doped with Ce(III). *Journal of Physical Chemistry B*, **2006**, 110, 15312-6	3.4	20
28	Hybrid layer-by-layer films based on lanthanide-bridged silicotungstates and poly(ethylenimine). *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2012**, 415, 302-309	5.1	19
27	Photoluminescent layered lanthanide organic framework based on a novel trifluorotriphosphonate organic linker. *CrystEngComm*, **2014**, 16, 344-358	3.3	18
26	Energy Transfer and Emission Decay Kinetics in Mixed Microporous Lanthanide Silicates with Unusual Dimensionality. *Journal of Physical Chemistry C*, **2008**, 112, 260-268	3.8	18
25	Photoluminescent Lanthanide-Organic Framework Based on a Tetraphosphonic Acid Linker. *Crystal Growth and Design*, **2017**, 17, 5191-5199	3.5	17
24	Photoluminescent microporous lanthanide silicate AV-21 frameworks. *Chemistry - A European Journal*, **2008**, 14, 8157-68	4.8	16

23	Magnetic and luminescent coordination networks based on imidazolium salts and lanthanides for sensitive ratiometric thermometry. *Beilstein Journal of Nanotechnology*, **2018**, 9, 2775-2787	3	14
22	Chiral microporous rare-earth silico-germanates: Synthesis, structure and photoluminescence properties. *Microporous and Mesoporous Materials*, **2013**, 166, 50-58	5.3	13
21	NMR transversal relaxivity of aqueous suspensions of particles of Ln(3+)-based zeolite type materials. *Dalton Transactions*, **2008**, 2241-7	4.3	13
20	Multifunctionality in an Ion-Exchanged Porous Metal-Organic Framework. *Journal of the American Chemical Society*, **2021**, 143, 1365-1376	16.4	13
19	Microwave Synthesis of a photoluminescent Metal-Organic Framework based on a rigid tetraphosphonate linker. *Inorganica Chimica Acta*, **2017**, 455, 584-594	2.7	12
18	Cs+ ion exchange over lanthanide silicate Eu-AV-20: Experimental measurement and modelling. *Chemical Engineering Journal*, **2015**, 268, 208-218	14.7	11
17	Photoluminescent Metal□Organic Frameworks □Rapid Preparation, Catalytic Activity, and Framework Relationships. *European Journal of Inorganic Chemistry*, **2013**, 2013, 5576-5591	2.3	11
16	Functionalization of atomic force microscope tips by dielectrophoretic assembly of Gd(2)O(3):Eu(3+) nanorods. *Nanotechnology*, **2008**, 19, 295702	3.4	11
15	Tb/Eu-AV-9: A lanthanide silicate for the sensing and removal of cesium ions from aqueous solutions. *Chemical Engineering Journal*, **2016**, 286, 679-688	14.7	9
14	Adsorption study of a macro-RAFT agent onto SiO 2 -coated Gd 2 O 3 :Eu 3+ nanorods: Requirements and limitations. *Applied Surface Science*, **2017**, 394, 519-527	6.7	9
13	Cs+ removal and optical detection by microporous lanthanide silicate Eu-AV-20 in a fixed-bed column. *Chemical Engineering Journal*, **2016**, 286, 48-58	14.7	8
12	Photoluminescent layered Y/Er silicates. *Journal of Alloys and Compounds*, **2008**, 451, 624-626	5.7	8
11	Novel Microporous and Layered Luminescent Lanthanide Silicates. *Materials Science Forum*, **2004**, 455-456, 527-531	0.4	7
10	Multifunctionality and cytotoxicity of a layered coordination polymer. *Dalton Transactions*, **2020**, 49, 3989-3998	4.3	5
9	Coordination polymers based on a glycine-derivative ligand. *CrystEngComm*, **2014**, 16, 8119-8137	3.3	5
8	Sandwich lanthano-silicotungstates: Structure, electrochemistry and photoluminescence properties. *Polyhedron*, **2013**, 52, 308-314	2.7	5
7	Luminescent Nanothermometers Obtained by Post-Synthetic Modification of Metal-Organic Framework MIL-68. *European Journal of Inorganic Chemistry*, **2019**, 2019, 1354-1359	2.3	4
6	Optical Detection of Solid-State Chiral Structures with Unpolarized Light and in the Absence of External Fields. *Angewandte Chemie*, **2006**, 118, 8106-8110	3.6	4

5	Hexakis-adducts of [60]fullerene as molecular scaffolds of polynuclear spin-crossover molecules. *Chemical Science*, **2020**, 12, 757-766	9.4	3
4	Cryogenic Luminescent Ratiometric Thermometers Based on Tetragonal Na[LnSiO4]□xNaOH (Ln = Gd, Tb, Eu; x □0.2). *European Journal of Inorganic Chemistry*, **2020**, 2020, 1852-1859	2.3	1
3	Rare-Earth Germanate Visible, Near-Infrared, and Up-Conversion Emitters. *European Journal of Inorganic Chemistry*, **2018**, 2018, 2444-2451	2.3	1
2	Metal□Organic Frameworks: Lanthanide□Organic Framework Nanothermometers Prepared by Spray-Drying (Adv. Funct. Mater. 19/2015). *Advanced Functional Materials*, **2015**, 25, 2939-2939	15.6	
1	Pyrene Tetraphosphonate-Based Metal-Organic Framework: Structure and Photoluminescence. *European Journal of Inorganic Chemistry*, **2020**, 2020, 3565-3572	2.3	