

Ana de Bettencourt-Dias

List of Publications by Year in descending order

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89
papers

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citations

147786

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128286

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g-index

109
all docs

109
docs citations

109
times ranked

3640
citing authors

#	ARTICLE	IF	CITATIONS
1	Lanthanide-based emitting materials in light-emitting diodes. Dalton Transactions, 2007, , 2229.	3.3	448
2	Exploring Lanthanide Luminescence in Metal-Organic Frameworks:Â Synthesis, Structure, and Guest-Sensitized Luminescence of a Mixed Europium/Terbium-Adipate Framework and a Terbium-Adipate Framework. Inorganic Chemistry, 2007, 46, 3960-3965.	4.0	280
3	Isolation and Structural Characterization of the Endohedral Fullerene Sc ₃ N@C ₇₈ . Angewandte Chemie - International Edition, 2001, 40, 1223-1225.	13.8	232
4	Isolation and Crystallographic Characterization of ErSc ₂ N@C ₈₀ :Â an Endohedral Fullerene Which Crystallizes with Remarkable Internal Order. Journal of the American Chemical Society, 2000, 122, 12220-12226.	13.7	184
5	A Water-Soluble Pybox Derivative and Its Highly Luminescent Lanthanide Ion Complexes. Journal of the American Chemical Society, 2012, 134, 6987-6994.	13.7	176
6	Isophthalato-Based 2D Coordination Polymers of Eu(III), Gd(III), and Tb(III): Enhancement of the Terbium-Centered Luminescence through Thiophene Derivatization. Inorganic Chemistry, 2005, 44, 2734-2741.	4.0	148
7	Eu(III) and Tb(III) Luminescence Sensitized by Thiophenyl-Derivatized Nitrobenzoato Antennas. Inorganic Chemistry, 2006, 45, 10138-10146.	4.0	119
8	Uranyl Sensitization of Samarium(III) Luminescence in a Two-Dimensional Coordination Polymer. Inorganic Chemistry, 2012, 51, 201-206.	4.0	119
9	Luminescent Ln ³⁺ nitrobenzoato complexes: first examples of sensitization of green and red emission Electronic supplementary information (ESI) available: absorption and excitation spectra of 1 and 2 in ethanol. See http://www.rsc.org/suppdata/cc/b4/b402038c . Chemical Communications, 2004, , 1024.	4.1	115
10	Crystallographic Characterization of the Structure of the Endohedral Fullerene {Er ₂ @C ₈₂ Isomer I} with CsCage Symmetry and Multiple Sites for Erbium along a Band of Ten Contiguous Hexagons. Journal of the American Chemical Society, 2002, 124, 4172-4173.	13.7	108
11	Aromatic N-donor ligands as chelators and sensitizers of lanthanide ion emission. Coordination Chemistry Reviews, 2014, 273-274, 165-200.	18.8	94
12	Para-Derivatized Pybox Ligands As Sensitizers in Highly Luminescent Ln(III) Complexes. Inorganic Chemistry, 2010, 49, 8848-8861.	4.0	92
13	Thiophene-Derivatized Pybox and Its Highly Luminescent Lanthanide Ion Complexes. Journal of the American Chemical Society, 2007, 129, 15436-15437.	13.7	88
14	Nitro-functionalization and luminescence quantum yield of Eu(iii) and Tb(iii) benzoic acid complexes. Dalton Transactions, 2006, , 4093.	3.3	85
15	Pyrenes, Peropyrenes, and Teropyrenes: Synthesis, Structures, and Photophysical Properties. Angewandte Chemie - International Edition, 2016, 55, 10427-10430.	13.8	81
16	Structural and Photophysical Properties of Visible- and Near-IR-Emitting Tris Lanthanide(III) Complexes Formed with the Enantiomers of <i>N</i>, <i>N</i> â€²-Bis(1-phenylethyl)-2,6-pyridinedicarboxamide. Inorganic Chemistry, 2012, 51, 647-660.	4.0	70
17	Ligand Design for Luminescent Lanthanide-Containing Metallopolymers. Inorganic Chemistry, 2016, 55, 9954-9963.	4.0	57
18	Small Molecule Luminescent Lanthanide Ion Complexes - Photophysical Characterization and Recent Developments. Current Organic Chemistry, 2007, 11, 1460-1480.	1.6	55

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19	First Unsymmetrical Bisfullerene, C ₁₂₁ : Evidence for the Presence of Both Homofullerene and Methanofullerene Cages in One Molecule. <i>Journal of the American Chemical Society</i> , 2001, 123, 1294-1301.	13.7	50
20	Electrochemical Studies of C ₆₀ /Pd Films Formed by the Reduction of C ₆₀ in the Presence of Palladium(II) Acetate Trimer. Effects of Varying C ₆₀ /Pd(II) Ratios in the Precursor Solutions. <i>Chemistry of Materials</i> , 2000, 12, 1386-1392.	6.7	48
21	Synthesis, Lanthanide Coordination Chemistry, and Liquid-Liquid Extraction Performance of CMPO-Decorated Pyridine and Pyridine N-Oxide Platforms. <i>Inorganic Chemistry</i> , 2013, 52, 3063-3083.	4.0	47
22	Electronic Interactions in a New Fullerene Dimer: C ₁₂₂ H ₄ , with Two Methylene Bridges. <i>Journal of Organic Chemistry</i> , 2000, 65, 3269-3273.	3.2	43
23	Charging Processes in Electroactive C ₆₀ /Pd Films: Effect of Solvent and Supporting Electrolyte. <i>Chemistry of Materials</i> , 1999, 11, 2265-2273.	6.7	41
24	Electropolymerization of 2-Ferrocenylpyrrolidino-[3,4;1,2][C ₆₀] fullerene in the Presence of Palladium Acetate. Formation of an Electroactive Fullerene-Based Film with a Covalently Attached Redox Probe. <i>Chemistry of Materials</i> , 2003, 15, 4122-4131.	6.7	40
25	Luminescence and Nonlinear Optical Properties in Copper(I) Halide Extended Networks. <i>Inorganic Chemistry</i> , 2016, 55, 11408-11417.	4.0	40
26	Pyrenes, Peropyrenes, and Teropyrenes: Synthesis, Structures, and Photophysical Properties. <i>Angewandte Chemie</i> , 2016, 128, 10583-10586.	2.0	37
27	Structure and properties of C ₆₀ -Pd films formed by electroreduction of C ₆₀ and palladium(ii) acetate trimer: evidence for the presence of palladium nanoparticles. <i>Journal of Materials Chemistry</i> , 2003, 13, 518-525.	6.7	36
28	The effect of 4-halogenobenzoate ligands on luminescent and structural properties of lanthanide complexes: experimental and theoretical approaches. <i>New Journal of Chemistry</i> , 2015, 39, 1883-1891.	2.8	36
29	Redox-active films formed by electrochemical reduction of solutions of C ₆₀ and platinum complexes. <i>Journal of Materials Chemistry</i> , 2002, 12, 2116-2122.	6.7	35
30	Interactions of metalloporphyrins as donors with the electron acceptors C ₆₀ , tetracyanoquinomethane (TCNQ) and trinitrofluorenylidene malonitrile. <i>Dalton Transactions</i> , 2003, , 3227.	3.3	34
31	Selective cytotoxicity and luminescence imaging of cancer cells with a dipicolinato-based Eu(III) complex. <i>Chemical Communications</i> , 2017, 53, 11818-11821.	4.1	33
32	New thiophene-functionalized pyrene, peropyrene, and teropyrene via a two- or four-fold alkyne annulation and their photophysical properties. <i>Canadian Journal of Chemistry</i> , 2017, 95, 341-345.	1.1	31
33	Estimating the Donor-Acceptor Distance To Tune the Emission Efficiency of Luminescent Lanthanide Compounds. <i>Inorganic Chemistry</i> , 2017, 56, 709-712.	4.0	31
34	2-Chloro-5-nitrobenzoate complexes of Eu(III) and Tb(III) - A 1D coordination polymer and enhanced solution luminescence. <i>Inorganic Chemistry Communication</i> , 2006, 9, 444-448.	3.9	26
35	Synthesis and f-element ligation properties of CMPO-decorated pyridine N-oxide platforms. <i>Dalton Transactions</i> , 2014, 43, 8368-8386.	3.3	23
36	Turning on Lanthanide Luminescence via Nanoencapsulation. <i>Inorganic Chemistry</i> , 2013, 52, 6311-6318.	4.0	22

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37	Intermolecular Forces and Functional Group Effects in the Packing Structure of Thiophene Derivatives. <i>Crystal Growth and Design</i> , 2005, 5, 1477-1483.	3.0	20
38	Phenylthiophene π -Dipicolinic Acid-Based Emitters with Strong Solution Blue and Solid State Green Emission. <i>Journal of Physical Chemistry B</i> , 2006, 110, 25638-25645.	2.6	19
39	Full Visible Spectrum and White Light Emission with a Single, Input-Tunable Organic Fluorophore. <i>Journal of the American Chemical Society</i> , 2020, 142, 20306-20312.	13.7	19
40	Unusual nitro-coordination of europium(iii) and terbium(iii) with pyridinyl ligands. <i>Dalton Transactions</i> , 2012, 41, 11212.	3.3	18
41	Synthesis, Structure, Photophysical Properties, and Photostability of Benzodipyrenes. <i>Chemistry - A European Journal</i> , 2019, 25, 1441-1445.	3.3	18
42	ZnS Nanoparticles Sensitize Luminescence of Capping-Ligand-Bound Lanthanide Ions. <i>Inorganic Chemistry</i> , 2017, 56, 3260-3268.	4.0	17
43	Mn doped AlZS/ZnS nanocrystals: Synthesis and optical properties. <i>Journal of Alloys and Compounds</i> , 2017, 725, 1077-1083.	5.5	16
44	Wavelength-Dependent Singlet Oxygen Generation in Luminescent Lanthanide Complexes with a Pyridine π -Bis(Carboxamide) π -Terthiophene Sensitizer. <i>Chemistry - A European Journal</i> , 2020, 26, 7274-7280.	3.3	16
45	Cadmium- and zinc-alloyed Cu π -In π S nanocrystals and their optical properties. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	15
46	¹ O ₂ Generating Luminescent Lanthanide Complexes with 1,8-Naphthalimide-Based Sensitizers. <i>Inorganic Chemistry</i> , 2019, 58, 13471-13480.	4.0	15
47	Anion- π and H-Bonding Interactions Supporting Encapsulation of [Ln(NO ₃) ₆ /5] ³⁺ (Ln = Nd, Er) with a Triazine-Based Ligand. <i>Journal of the American Chemical Society</i> , 2019, 141, 15102-15110.	13.7	15
48	Luminescent Carbazole-Based Eu ^{III} and Yb ^{III} Complexes with a High Two-Photon Absorption Cross-Section Enable Viscosity Sensing in the Visible and Near IR with One- and Two-Photon Excitation. <i>Inorganic Chemistry</i> , 2020, 59, 3193-3199.	4.0	15
49	Microwave-assisted synthesis of ternary lanthanide(2-thenoyltrifluoroacetone) ₃ (triphenylphosphine oxide) ₂ complexes. <i>Inorganica Chimica Acta</i> , 2017, 464, 23-30.	2.4	14
50	A water-soluble Tb ^{III} complex as a temperature-sensitive luminescent probe. <i>Canadian Journal of Chemistry</i> , 2018, 96, 859-864.	1.1	14
51	LnIII-centered emission sensitized through fluorescent carbon dots. <i>Journal of Luminescence</i> , 2017, 192, 1273-1277.	3.1	13
52	The influence of electroactive solutes on the properties of electrochemically formed fullerene C60-based films. <i>Journal of Electroanalytical Chemistry</i> , 2003, 549, 109-117.	3.8	12
53	New up-conversion luminescence in molecular cyano-substituted naphthylsalophen lanthanide(ⁱⁱⁱ) complexes. <i>Chemical Communications</i> , 2021, 57, 2551-2554.	4.1	12
54	Solution structure of a europium π -nicotianamine complex supports that phytosiderophores bind lanthanides. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4287-4299.	2.8	12

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55	Sensitization of Ln ^{III} (Ln = Eu, Tb, Tm) Ion Luminescence by Functionalized Polycarbonate-Based Materials and White Light Generation. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 5310-5317.	2.0	11
56	Secondary-Sphere Chlorolanthanide(III) Complexes with a 1,3,5-Triazine-Based Ligand Supported by Anion-π, π-π, and Hydrogen-Bonding Interactions. <i>Inorganic Chemistry</i> , 2020, 59, 151-160.	4.0	11
57	Photocytotoxicity of Thiophene- and Bithiophene-Dipicolinato Luminescent Lanthanide Complexes. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 7724-7734.	6.4	11
58	Luminescence of Lanthanide Complexes with Perfluorinated Alkoxide Ligands. <i>Inorganic Chemistry</i> , 2020, 59, 9807-9823.	4.0	9
59	Homobinuclear sulfato-bridged and mononuclear nitrate complexes of Cu(II) with thiophen-2-yl-dipicolylamine; structure and anion-dependent absorption spectra. <i>Inorganic Chemistry Communication</i> , 2011, 14, 753-758.	3.9	8
60	Isolation and Structural Characterization of the Endohedral Fullerene Sc(3)N@C(78) This work was supported by the US National Science Foundation (Grants CHE 9610507 and CHE 0070291 to A.L.B.), LUNA Innovations (H.C.D.), and the Gulbenkian Foundation (postdoctoral fellowship to A.d.B.-D.). <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1223-1225.	13.8	8
61	Tuning the structural and lanthanide luminescence properties of macrocyclic tetraaminodiphenolate europium(III) complexes. <i>Polyhedron</i> , 2016, 114, 451-458.	2.2	7
62	Luminescent lanthanide complexes with a pyridine-bis(carboxamide)-bithiophene sensitizer showing wavelength-dependent singlet oxygen generation. <i>Dalton Transactions</i> , 2020, 49, 6661-6667.	3.3	7
63	Thiophene-derivatized pyridine-bis(carboxamide) as a sensitizer for Ln ^{III} luminescence and ¹ O ₂ generation. <i>Journal of Luminescence</i> , 2020, 224, 117309.	3.1	7
64	Photocytotoxicity of Oligothiophenyl-Functionalized Chelates That Sensitize Ln ^{III} Luminescence and Generate ¹ O ₂ . <i>Chemistry - A European Journal</i> , 2020, 26, 12060-12066.	3.3	7
65	An oxazoline derivatized Pybox ligand for Eu(III) and Tb(III) sensitization. <i>Comptes Rendus Chimie</i> , 2010, 13, 691-699.	0.5	6
66	Counter-anions and their coordination behavior with Cu(II) complexes of thiophen-3-yl-dipicolylamine. <i>Inorganica Chimica Acta</i> , 2010, 363, 4088-4095.	2.4	6
67	Editorial for the Virtual Issue on Photochemistry and Photophysics of Lanthanide Compounds. <i>Inorganic Chemistry</i> , 2016, 55, 3199-3202.	4.0	6
68	Sensitization of near-infrared Ln ^{III} [Ln = Yb or Nd] ions using water-soluble, band gap tuneable 3-MPA-capped CdS nanoparticles. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2814-2821.	5.5	6
69	Lanthanide ion emission in multicolor OLEDs (Ce ³⁺ , Pr ³⁺ , Tb ³⁺ , Dy ³⁺ , Tm ³⁺ , and white light Eu ³⁺) <i>TJ ETQq1 1 0.784314 rgBT 10</i>		
70	Estimating the Individual Spectroscopic Properties of Three Unique Eu ^{III} Sites in a Coordination Polymer. <i>Inorganic Chemistry</i> , 2018, 57, 15421-15429.	4.0	5
71	Two-Photon Excitation for Bone Imaging: A New Application for Lanthanide Luminescence. <i>CheM</i> , 2016, 1, 342-343.	11.7	4
72	Photophysical properties of asymmetric and water-soluble dinuclear lanthanide complexes of poly glycol chain functionalized-benzoic acid derivative: experimental and theoretical approaches. <i>RSC Advances</i> , 2016, 6, 101133-101141.	3.6	4

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73	Metal-organic frameworks of lanthanide iminodiacetates and tartrates: Synthesis, structural characterization and luminescence properties – Commemorating the 100th anniversary of the birth of Academician Guangxian Xu. <i>Journal of Rare Earths</i> , 2021, 39, 487-494.	4.8	4
74	Isolation and Structural Characterization of the Endohedral Fullerene Sc ₃ N@C ₇₈ . <i>Angewandte Chemie - International Edition</i> , 2001, 40, 1223-1225.	13.8	4
75	Crystallographic Characterization of Dipyrildylamine Derivatives. <i>Journal of Chemical Crystallography</i> , 2011, 41, 192-197.	1.1	3
76	Synthesis and Characterization of Two Tritylthio-Derivatives: 1-Bromo-3-Tritylthiopropene and 2-(Tritylthio)-Ethanethiol. <i>Journal of Chemical Crystallography</i> , 2017, 47, 233-240.	1.1	3
77	An Uncommon Hexafluorosilicate Salt of the Bis(diethylamino)difluorosulfonium Cation Displaying Extensive Hydrogen Bonding. <i>Journal of Chemical Crystallography</i> , 2011, 41, 902-907.	1.1	2
78	Diaquatris[4,4,4-trifluoro-3-oxo-1-(thiophen-2-yl)but-1-en-1-olato]neodymium(III) acetonitrile monosolvate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011, 67, m1188-m1189.	0.2	2
79	Effect of the aromatic substituent on the para-position of pyridine-bis(oxazoline) sensitizers on the emission efficiency of their Eu(III) and Tb(III) complexes. <i>Dalton Transactions</i> , 2020, 49, 17699-17708.	3.3	2
80	Azido- and amino-substituted dipicolinates for the sensitization of the luminescent lanthanides Eu(III) and Tb(III). <i>Inorganica Chimica Acta</i> , 2021, 514, 120003.	2.4	2
81	New k ¹ ,k ¹ -benzoato-bridged complexes of Eu(III) and Tb(III) with a triazine-benzamide ligand. <i>Main Group Chemistry</i> , 2012, 11, 31-44.	0.8	2
82	4-Bromo-N ₂ ,N ₂ ,N ₆ ,N ₆ -tetraethylpyridine-2,6-dicarboxamide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, o2124-o2124.	0.2	1
83	Unusual O-bridged Symmetric Quinoline-Based Ligand for the Formation of Luminescent Mono-Aqua Lanthanide Complexes. <i>ChemistrySelect</i> , 2016, 1, 6618-6622.	1.5	1
84	Carbazole-functionalized dipicolinato Ln(III) complexes show two-photon excitation and viscosity-sensitive metal-centered emission. <i>Journal of Luminescence</i> , 2022, 245, 118768.	3.1	1
85	Color Inserts. , 2014, , 1-24.		0
86	Women in Inorganic Chemistry: Synthetic Chemistry Addressing Challenges in Energy and the Environment. <i>Inorganic Chemistry</i> , 2018, 57, 3656-3658.	4.0	0
87	Women in Nanotechnology: Toward Better Materials through a Better Understanding of Low-Dimensional Systems. <i>ACS Nano</i> , 2018, 12, 7417-7420.	14.6	0
88	Inorganic Young Investigators: A Celebration for Our Rising Stars. <i>Inorganic Chemistry</i> , 2019, 58, 10607-10610.	4.0	0
89	Inorganic Young Investigators: Celebrating the Rising Generation of Chemists. <i>Inorganic Chemistry</i> , 2020, 59, 11852-11854.	4.0	0