

Carlos BaleizÃ£o

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6132981/publications.pdf>

Version: 2024-02-01

82
papers

3,958
citations

159358

30
h-index

118652

62
g-index

88
all docs

88
docs citations

88
times ranked

4652
citing authors

#	ARTICLE	IF	CITATIONS
1	Chiral Salen Complexes: An Overview to Recoverable and Reusable Homogeneous and Heterogeneous Catalysts. <i>Chemical Reviews</i> , 2006, 106, 3987-4043.	23.0	641
2	Dual Fluorescence Sensor for Trace Oxygen and Temperature with Unmatched Range and Sensitivity. <i>Analytical Chemistry</i> , 2008, 80, 6449-6457.	3.2	222
3	Oxime Carbapalladacycle Covalently Anchored to High Surface Area Inorganic Supports or Polymers as Heterogeneous Green Catalysts for the Suzuki Reaction in Water. <i>Journal of Organic Chemistry</i> , 2004, 69, 439-446.	1.7	203
4	Vanadyl salen complexes covalently anchored to single-wall carbon nanotubes as heterogeneous catalysts for the cyanosilylation of aldehydes. <i>Journal of Catalysis</i> , 2004, 221, 77-84.	3.1	167
5	Synthesis and catalytic activity of a chiral periodic mesoporous organosilica (ChiMO). <i>Chemical Communications</i> , 2003, , 1860-1861.	2.2	165
6	An oxime-carbapalladacycle complex covalently anchored to silica as an active and reusable heterogeneous catalyst for Suzuki cross-coupling in water. <i>Chemical Communications</i> , 2003, , 606-607.	2.2	143
7	Periodic mesoporous organosilica incorporating a catalytically active vanadyl Schiff base complex in the framework. <i>Journal of Catalysis</i> , 2004, 223, 106-113.	3.1	142
8	Chiral vanadyl salen complex anchored on supports as recoverable catalysts for the enantioselective cyanosilylation of aldehydes. Comparison among silica, single wall carbon nanotube, activated carbon and imidazolium ion as support. <i>Tetrahedron</i> , 2004, 60, 10461-10468.	1.0	123
9	Chiral vanadyl Schiff base complex anchored on silicas as solid enantioselective catalysts for formation of cyanohydrins: optimization of the asymmetric induction by support modification. <i>Journal of Catalysis</i> , 2003, 215, 199-207.	3.1	114
10	CO fixation using recoverable chromium salen catalysts: use of ionic liquids as cosolvent or high-surface-area silicates as supports. <i>Journal of Catalysis</i> , 2004, 228, 254-258.	3.1	111
11	Thermally activated delayed fluorescence as a cycling process between excited singlet and triplet states: Application to the fullerenes. <i>Journal of Chemical Physics</i> , 2007, 126, 204510.	1.2	106
12	Vanadyl salen complexes covalently anchored to an imidazolium ion as catalysts for the cyanosilylation of aldehydes in ionic liquids. <i>Tetrahedron Letters</i> , 2003, 44, 6813-6816.	0.7	94
13	An Optical Thermometer Based on the Delayed Fluorescence of C70. <i>Chemistry - A European Journal</i> , 2007, 13, 3643-3651.	1.7	92
14	Polymer-bound aluminium salen complex as reusable catalysts for CO ₂ insertion into epoxides. <i>Tetrahedron</i> , 2005, 61, 12131-12139.	1.0	87
15	On the activity of chiral chromium salen complexes covalently bound to solid silicates for the enantioselective epoxide ring opening. <i>Applied Catalysis A: General</i> , 2002, 228, 279-288.	2.2	86
16	Optical Sensing and Imaging of Trace Oxygen with Record Response. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 2317-2319.	7.2	86
17	Functional Films from Silica/Polymer Nanoparticles. <i>Materials</i> , 2014, 7, 3881-3900.	1.3	85
18	Ionic liquids as green solvents for the asymmetric synthesis of cyanohydrins catalysed by VO(salen) complexes. Dedicated to Prof. W. Adam on the occasion of his 65th Birthday. <i>Green Chemistry</i> , 2002, 4, 272-274.	4.6	77

#	ARTICLE	IF	CITATIONS
19	Sensing and Imaging of Oxygen with Parts per Billion Limits of Detection and Based on the Quenching of the Delayed Fluorescence of C_{70} Fullerene in Polymer Hosts. <i>Analytical Chemistry</i> , 2013, 85, 1300-1304.	3.2	68
20	Calix[4]azacrowns as Novel Molecular Scaffolds for the Generation of Visible and Near-Infrared Lanthanide Luminescence. <i>Inorganic Chemistry</i> , 2006, 45, 2652-2660.	1.9	60
21	Artefact-free Evaluation of Metal Enhanced Fluorescence in Silica Coated Gold Nanoparticles. <i>Scientific Reports</i> , 2017, 7, 2440.	1.6	57
22	Controlled release of singlet oxygen using diphenylanthracene functionalized polymer nanoparticles. <i>Chemical Communications</i> , 2014, 50, 3317.	2.2	50
23	Functional Group Coverage and Conversion Quantification in Nanostructured Silica by 1H NMR. <i>Analytical Chemistry</i> , 2017, 89, 681-687.	3.2	48
24	GelMA/bioactive silica nanocomposite bioinks for stem cell osteogenic differentiation. <i>Biofabrication</i> , 2021, 13, 035012.	3.7	48
25	Oxygen-proof fluorescence temperature sensing with pristine C_{70} encapsulated in polymernanoparticles. <i>Journal of Materials Chemistry</i> , 2010, 20, 1192-1197.	6.7	44
26	Hybrid mesoporous silica nanocarriers with thermovalve-regulated controlled release. <i>Nanoscale</i> , 2017, 9, 13485-13494.	2.8	43
27	Synthesis and Characterization of Perylenediimide Labeled Core-Shell Hybrid Silica-Polymer Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18082-18090.	1.5	42
28	Effect of Molecular Stacking on Exciton Diffusion in Crystalline Organic Semiconductors. <i>Journal of the American Chemical Society</i> , 2015, 137, 7104-7110.	6.6	37
29	Methods for the analysis of complex fluorescence decays: sum of Becquerel functions versus sum of exponentials. <i>Methods and Applications in Fluorescence</i> , 2013, 1, 015002.	1.1	35
30	Intra- and Intermolecular Heavy-Atom Effects on the Fluorescence Properties of Brominated C60Polyads. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12809-12814.	1.2	32
31	Thermally Activated Delayed Fluorescence in Fullerenes. <i>Annals of the New York Academy of Sciences</i> , 2008, 1130, 224-234.	1.8	31
32	High performance NIR fluorescent silica nanoparticles for bioimaging. <i>RSC Advances</i> , 2013, 3, 9171.	1.7	29
33	Multifunctional Hybrid Silica Nanoparticles with a Fluorescent Core and Active Targeting Shell for Fluorescence Imaging Biodiagnostic Applications. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 4579-4587.	1.0	29
34	NIR and visible perylenediimide-silica nanoparticles for laser scanning bioimaging. <i>Dyes and Pigments</i> , 2014, 110, 227-234.	2.0	28
35	Friedel-Crafts reactions in ionic liquids: the counter-ion effect on the dealkylation and acylation of methyl dehydroabietate. <i>Tetrahedron Letters</i> , 2004, 45, 4375-4377.	0.7	26
36	Hybrid smart mesoporous silica nanoparticles for theranostics. <i>Nanomedicine</i> , 2015, 10, 2311-2314.	1.7	26

#	ARTICLE	IF	CITATIONS
37	Photophysical Study of Bis(naphthalimide)-Amine Conjugates: Toward Molecular Design of Excimer Emission Switching. <i>Journal of Physical Chemistry A</i> , 2011, 115, 1092-1099.	1.1	25
38	Silica nanocarriers with user-defined precise diameters by controlled template self-assembly. <i>Journal of Colloid and Interface Science</i> , 2020, 561, 609-619.	5.0	25
39	Boron-chelating membranes based in hybrid mesoporous silica nanoparticles for water purification. <i>Materials and Design</i> , 2018, 141, 407-413.	3.3	24
40	The Brightest Fullerene: A New Isotope Effect in Molecular Fluorescence and Phosphorescence. <i>ChemPhysChem</i> , 2011, 12, 1247-1250.	1.0	20
41	Fluorescence of fullerene C70 in ionic liquids. <i>Chemical Physics Letters</i> , 2010, 497, 43-47.	1.2	19
42	External Heavy-Atom Effect on the Prompt and Delayed Fluorescence of [70]Fullerenes. <i>ChemPhysChem</i> , 2010, 11, 3133-3140.	1.0	19
43	Intrinsically Fluorescent Silica Nanocontainers: A Promising Theranostic Platform. <i>Microscopy and Microanalysis</i> , 2013, 19, 1216-1221.	0.2	19
44	Bioactive silica nanoparticles with calcium and phosphate for single dose osteogenic differentiation. <i>Materials Science and Engineering C</i> , 2020, 107, 110348.	3.8	19
45	Platelet lysates-based hydrogels incorporating bioactive mesoporous silica nanoparticles for stem cell osteogenic differentiation. <i>Materials Today Bio</i> , 2021, 9, 100096.	2.6	19
46	A Molecular Thermometer Based on the Delayed Fluorescence of C70 Dispersed in a Polystyrene Film. <i>Journal of Fluorescence</i> , 2006, 16, 215-219.	1.3	16
47	New heterogeneous catalysts for the synthesis of chiral amino acids: Functionalization of organic resins with chiral salen complexes. <i>Catalysis Today</i> , 2013, 218-219, 65-69.	2.2	16
48	Multifunctional Platform Based on Electroactive Polymers and Silica Nanoparticles for Tissue Engineering Applications. <i>Nanomaterials</i> , 2018, 8, 933.	1.9	16
49	Sc(OTf) ₃ promoted multicomponent synthesis of fluorescent imidazo[1,2-c]pyrazolo[3,4-d]pyrimidine. <i>Tetrahedron Letters</i> , 2013, 54, 4781-4784.	0.7	15
50	How Fast is a Fast Equilibrium? A New View of Reversible Reactions. <i>ChemPhysChem</i> , 2009, 10, 199-205.	1.0	14
51	Hybrid Mesoporous Nanoparticles for pH-Actuated Controlled Release. <i>Nanomaterials</i> , 2019, 9, 483.	1.9	14
52	Silica nanoparticles surface charge modulation of the electroactive phase content and physical-chemical properties of poly(vinylidene fluoride) nanocomposites. <i>Composites Part B: Engineering</i> , 2020, 185, 107786.	5.9	14
53	Strong green chemiluminescence from naphthalene analogues of luminol. <i>New Journal of Chemistry</i> , 2014, 38, 2258.	1.4	13
54	On the Structure of Amorphous Mesoporous Silica Nanoparticles by Aberration-Corrected STEM. <i>Small</i> , 2018, 14, e1802180.	5.2	12

#	ARTICLE	IF	CITATIONS
55	Temperature-responsive fibres of cellulose-based copolymers. <i>Polymer Chemistry</i> , 2018, 9, 3615-3623.	1.9	12
56	Two-photon absorption of perylene-3,4,9,10-tetracarboxylic acid diimides: Effect of substituents in the bay. <i>Dyes and Pigments</i> , 2021, 193, 109470.	2.0	12
57	Formation of hybrid films from perylene diimide-labeled core-shell silica-polymer nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2013, 401, 14-22.	5.0	11
58	Electroluminescence response promoted by dispersion and interaction of perylene-3,4,9,10-tetracarboxylic dianhydride inside MOF5. <i>RSC Advances</i> , 2016, 6, 35191-35196.	1.7	11
59	Highly Efficient Singlet-Singlet Energy Transfer in Light Harvesting [60,70]Fullerene-4,8-naphthalimide Dyads. <i>ChemPhysChem</i> , 2013, 14, 2717-2724.	1.0	9
60	Grafting with RAFT-gRAFT Strategies to Prepare Hybrid Nanocarriers with Core-shell Architecture. <i>Polymers</i> , 2020, 12, 2175.	2.0	9
61	A new optical boron detection method. <i>Analytical Methods</i> , 2014, 6, 5450-5453.	1.3	8
62	Impact of Molecular Organization on Exciton Diffusion in Photosensitive Single-Crystal Halogenated Perylene diimides Charge Transfer Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 27720-27729.	4.0	8
63	Smart polymeric nanoparticles for boron scavenging. <i>Chemical Engineering Journal</i> , 2017, 319, 31-38.	6.6	7
64	Temperature-responsive copolymers without compositional drift by RAFT copolymerization of 2-(acryloyloxy)ethyl trimethylammonium chloride and 2-(diethylamino)ethyl acrylate. <i>Polymer Chemistry</i> , 2019, 10, 2106-2116.	1.9	7
65	Efficient Single-Dose Induction of Osteogenic Differentiation of Stem Cells Using Multi-Bioactive Hybrid Nanocarriers. <i>Advanced Biology</i> , 2020, 4, e2000123.	3.0	7
66	Mesoporous Silica Nanoparticles Modified inside and out for ON:OFF pH-Modulated Cargo Release. <i>Pharmaceutics</i> , 2021, 13, 716.	2.0	7
67	Drug Delivery from PCL/Chitosan Multilayer Coatings for Metallic Implants. <i>ACS Omega</i> , 2022, 7, 23096-23106.	1.6	7
68	Fluorescence of Fullerenes. <i>Springer Series on Fluorescence</i> , 2007, , 151-184.	0.8	6
69	Enzyme kinetics with a twist. <i>Journal of Mathematical Chemistry</i> , 2011, 49, 1949-1960.	0.7	5
70	Photochemistry of chiral pentacoordinated Al salen complexes. Chiral recognition in the quenching of photogenerated tetracoordinated Al salen transient by alkenes. <i>Photochemical and Photobiological Sciences</i> , 2003, 2, 386-392.	1.6	4
71	Cellulose acetate fibres loaded with daptomycin for metal implant coatings. <i>Carbohydrate Polymers</i> , 2022, 276, 118733.	5.1	4
72	Optical sensing of aqueous boron based on polymeric hydroxytriphenylene derivatives. <i>RSC Advances</i> , 2017, 7, 4627-4634.	1.7	3

#	ARTICLE	IF	CITATIONS
73	Chemiluminescence of naphthalene analogues of luminol in solution and micellar media. <i>Dyes and Pigments</i> , 2019, 168, 341-346.	2.0	3
74	New Visible and NIR Highly Photostable Fluorescent Silica Nanoparticles for Laser Scanning Imaging Applications. <i>Microscopy and Microanalysis</i> , 2013, 19, 105-106.	0.2	2
75	Smart Polymer Nanoparticles for High-Performance Water-Based Coatings. , 2016, , 619-645.		2
76	Synthesis and fluorescence properties of aminocyanopyrrole and aminocyanothiophene esters for biomedical and bioimaging applications. <i>Journal of Molecular Structure</i> , 2020, 1209, 127974.	1.8	2
77	An Oxime-Carbapalladacycle Complex Covalently Anchored to Silica as an Active and Reusable Heterogeneous Catalyst for Suzuki Cross-Coupling in Water.. <i>ChemInform</i> , 2003, 34, no.	0.1	1
78	Oxime Carbapalladacycle Covalently Anchored to High Surface Area Inorganic Supports or Polymers as Heterogeneous Green Catalysts for the Suzuki Reaction in Water.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
79	Chiral Vanadyl Salen Complex Anchored on Supports as Recoverable Catalysts for the Enantioselective Cyanosilylation of Aldehydes. Comparison Among Silica, Single Wall Carbon Nanotube, Activated Carbon and Imidazolium Ion as Support.. <i>ChemInform</i> , 2005, 36, no.	0.1	0
80	Recent Developments in the Thermally Activated Delayed Fluorescence of Fullerenes. <i>ECS Transactions</i> , 2008, 13, 3-12.	0.3	0
81	Osteogenic Differentiation: Efficient Single-Dose Induction of Osteogenic Differentiation of Stem Cells Using Multi-Bioactive Hybrid Nanocarriers (<i>Adv. Biosys.</i> 11/2020). <i>Advanced Biology</i> , 2020, 4, 2070112.	3.0	0
82	Nanoscale design in biomineralization for developing new biomaterials. , 2022, , 345-384.		0