

Alfonso Salinas-Castillo

List of Publications by Year in descending order

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85
papers

2,365
citations

185998

28
h-index

223531

46
g-index

85
all docs

85
docs citations

85
times ranked

3763
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon dots for copper detection with down and upconversion fluorescent properties as excitation sources. <i>Chemical Communications</i> , 2013, 49, 1103.	2.2	261
2	Flexible and robust laser-induced graphene heaters photothermally scribed on bare polyimide substrates. <i>Carbon</i> , 2019, 144, 116-126.	5.4	144
3	Fluorescent conjugated polymers for chemical and biochemical sensing. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 1513-1525.	5.8	102
4	Wearable Potentiometric Ion Patch for On-Body Electrolyte Monitoring in Sweat: Toward a Validation Strategy to Ensure Physiological Relevance. <i>Analytical Chemistry</i> , 2019, 91, 8644-8651.	3.2	93
5	Microsystem-assisted synthesis of carbon dots with fluorescent and colorimetric properties for pH detection. <i>Nanoscale</i> , 2014, 6, 6018-6024.	2.8	81
6	Microfluidic paper-based device for colorimetric determination of glucose based on a metal-organic framework acting as peroxidase mimetic. <i>Mikrochimica Acta</i> , 2018, 185, 47.	2.5	77
7	A General Perspective of the Characterization and Quantification of Nanoparticles: Imaging, Spectroscopic, and Separation Techniques. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2014, 39, 423-458.	6.8	72
8	A 3D μ PAD based on a multi-enzyme organic-inorganic hybrid nanoflower reactor. <i>Biosensors and Bioelectronics</i> , 2016, 77, 51-55.	5.3	68
9	Synthesis, X-ray structures and luminescence properties of three multidimensional metal-organic frameworks incorporating the versatile 5-(pyrimidyl)tetrazolato bridging ligand. <i>Dalton Transactions</i> , 2007, , 1821-1828.	1.6	66
10	A chiral diamondoid 3D lanthanum metal-organic framework displaying blue-greenish long lifetime photoluminescence emission. <i>CrystEngComm</i> , 2010, 12, 1876.	1.3	65
11	In-Depth Study of Laser Diode Ablation of Kapton Polyimide for Flexible Conductive Substrates. <i>Nanomaterials</i> , 2018, 8, 517.	1.9	53
12	A Review of Heavy-Atom-Induced Room-Temperature Phosphorescence: a Straightforward Phosphorimetric Method. <i>Critical Reviews in Analytical Chemistry</i> , 2005, 35, 3-14.	1.8	50
13	Design, fabrication and characterization of capacitive humidity sensors based on emerging flexible technologies. <i>Sensors and Actuators B: Chemical</i> , 2019, 287, 459-467.	4.0	46
14	Conjugated Polymer Microspheres for "Turn-Off"/"Turn-On" Fluorescence Optosensing of Inorganic Ions in Aqueous Media. <i>Analytical Chemistry</i> , 2011, 83, 2712-2718.	3.2	45
15	Cellulose nanofibers as substrate for flexible and biodegradable moisture sensors. <i>Composites Science and Technology</i> , 2021, 208, 108738.	3.8	44
16	Tetrazine-based chemistry for nitrite determination in a paper microfluidic device. <i>Talanta</i> , 2016, 160, 721-728.	2.9	40
17	Luminescence and magnetic properties of three metal-organic frameworks based on the 5-(1H-tetrazol-5-yl)isophthalic acid ligand. <i>CrystEngComm</i> , 2013, 15, 7636.	1.3	39
18	Synthesis of a new fluorescent conjugated polymer microsphere for chemical sensing in aqueous media. <i>Chemical Communications</i> , 2010, 46, 1263.	2.2	37

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19	Heavy atom induced room temperature phosphorescence: a tool for the analytical characterization of polycyclic aromatic hydrocarbons. <i>Analytica Chimica Acta</i> , 2004, 516, 213-220.	2.6	36
20	The development of a MIP-optosensor for the detection of monoamine naphthalenes in drinking water. <i>Biosensors and Bioelectronics</i> , 2009, 24, 2305-2311.	5.3	36
21	Printed Disposable Colorimetric Array for Metal Ion Discrimination. <i>Analytical Chemistry</i> , 2014, 86, 8634-8641.	3.2	36
22	Polyelectrolyte Complexes of Low Molecular Weight PEI and Citric Acid as Efficient and Nontoxic Vectors for in Vitro and in Vivo Gene Delivery. <i>Bioconjugate Chemistry</i> , 2016, 27, 549-561.	1.8	36
23	Progress in the Synthesis of Poly(2,7-Fluorene- <i>alt</i> -1,4-Phenylene), PFP, via Suzuki Coupling. <i>Macromolecules</i> , 2009, 42, 5471-5477.	2.2	34
24	Thermochromic sensor design based on Fe(II) spin crossover/polymers hybrid materials and artificial neural networks as a tool in modelling. <i>Sensors and Actuators B: Chemical</i> , 2015, 208, 180-187.	4.0	33
25	Photographing the synergy between magnetic and colour properties in spin crossover material [Fe(NH ₂) ₃](BF ₄) ₂ : a temperature sensor perspective. <i>Chemical Communications</i> , 2013, 49, 288-290.	2.2	31
26	Iodinated molecularly imprinted polymer for room temperature phosphorescence optosensing of fluoranthene. <i>Chemical Communications</i> , 2005, , 3224.	2.2	30
27	First Examples of Metal-Organic Frameworks with the Novel 3,3'-(1,2,4,5-Tetrazine-3,6-diyl)dibenzoic Spacer. Luminescence and Adsorption Properties. <i>Inorganic Chemistry</i> , 2013, 52, 546-548.	1.9	30
28	Pyridine Vapors Detection by an Optical Fibre Sensor. <i>Sensors</i> , 2008, 8, 847-859.	2.1	29
29	Particle tuning and modulation of the magnetic/colour synergy in Fe spin crossover-polymer nanocomposites in a thermochromic sensor array. <i>Journal of Materials Chemistry C</i> , 2014, 2, 7292-7303.	2.7	29
30	Immobilization of a trienzymatic system in a sol-gel matrix: A new fluorescent biosensor for xanthine. <i>Biosensors and Bioelectronics</i> , 2008, 24, 1053-1056.	5.3	28
31	Inkjet-printed disposable metal complexing indicator-displacement assay for sulphide determination in water. <i>Analytica Chimica Acta</i> , 2015, 872, 55-62.	2.6	28
32	Effect of π - π stacking interactions on the emission properties of cadmium metal-organic frameworks based on 1,4-bis(4-pyridyl)-2,3-diaza-1,3-butadiene. <i>CrystEngComm</i> , 2015, 17, 3659-3666.	1.3	28
33	A Potassium Metal-Organic Framework based on Perylene-3,4,9,10-tetracarboxylate as Sensing Layer for Humidity Actuators. <i>Scientific Reports</i> , 2018, 8, 14414.	1.6	27
34	Feasibility of the use of disposable optical tongue based on neural networks for heavy metal identification and determination. <i>Analytica Chimica Acta</i> , 2013, 783, 56-64.	2.6	26
35	Evaluation of a reconfigurable portable instrument for copper determination based on luminescent carbon dots. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 3013-3020.	1.9	25
36	Novel 3D lanthanum oxalate metal-organic-framework: Synthetic, structural, luminescence and adsorption properties. <i>Polyhedron</i> , 2013, 52, 315-320.	1.0	24

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37	Solid-surface phosphorescence characterization of polycyclic aromatic hydrocarbons and selective determination of benzo(a)pyrene in water samples. <i>Analytica Chimica Acta</i> , 2005, 550, 53-60.	2.6	22
38	Highly stable luminescent europium-doped calcium phosphate nanoparticles for creatinine quantification. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 196, 111337.	2.5	20
39	A facile flow-through phosphorimetric sensing device for simultaneous determination of naptalam and its metabolite 1-naphthylamine. <i>Analytica Chimica Acta</i> , 2004, 522, 19-24.	2.6	19
40	Synthesis and characterization of CdS nanocrystals stabilized in polyvinyl alcohol-sodium polyphosphate. <i>Materials Letters</i> , 2009, 63, 638-640.	1.3	19
41	Dual investigation of lanthanide complexes with cinnamate and phenylacetate ligands: Study of the cytotoxic properties and the catalytic oxidation of styrene. <i>Polyhedron</i> , 2014, 80, 117-128.	1.0	19
42	Monitoring of degradation of porous silicon photonic crystals using digital photography. <i>Nanoscale Research Letters</i> , 2014, 9, 410.	3.1	18
43	In situ synthesis of fluorescent silicon nanodots for determination of total carbohydrates in a paper microfluidic device combined with laser prepared graphene heater. <i>Sensors and Actuators B: Chemical</i> , 2021, 332, 129506.	4.0	18
44	Sensitive and simple determination of the vasodilator agent dipyridamole in pharmaceutical preparations by phosphorimetry. <i>Analytical and Bioanalytical Chemistry</i> , 2003, 376, 1111-1114.	1.9	17
45	Long lifetime photoluminescence emission of 3D cadmium metal-organic frameworks based on the 5-(4-pyridyl)tetrazole ligand. <i>Inorganica Chimica Acta</i> , 2015, 427, 131-137.	1.2	17
46	A vinyl sulfone clicked carbon dot-engineered microfluidic paper-based analytical device for fluorometric determination of biothiols. <i>Mikrochimica Acta</i> , 2020, 187, 421.	2.5	17
47	Synthesis, structures and luminescence properties of two new Zn(II) coordination compounds incorporating the 5-(4-pyridyl)tetrazolate spacer ligand. <i>Inorganica Chimica Acta</i> , 2010, 363, 3194-3199.	1.2	13
48	Multienzymatic system immobilization in sol-gel slides: Fluorescent superoxide biosensors development. <i>Biosensors and Bioelectronics</i> , 2010, 25, 1526-1529.	5.3	13
49	Novel metal-organic frameworks based on 5-bromonicotinic acid: Multifunctional materials with H ₂ purification capabilities. <i>CrystEngComm</i> , 2012, 14, 6390.	1.3	13
50	Thermoresponsive Gold Polymer Nanohybrids with a Tunable Cross-Linked MEO ₂ MA Polymer Shell. <i>Particle and Particle Systems Characterization</i> , 2014, 31, 1183-1191.	1.2	13
51	Engineered Glycated Amino Dendritic Polymers as Specific Nonviral Gene Delivery Vectors Targeting the Receptor for Advanced Glycation End Products. <i>Bioconjugate Chemistry</i> , 2014, 25, 1151-1161.	1.8	12
52	Acid anhydride coated carbon nanodots: activated platforms for engineering clicked (bio)nanoconstructs. <i>Nanoscale</i> , 2019, 11, 7850-7856.	2.8	12
53	Fluorene-based stannylated polymers and their use as recyclable reagents in the Stille reaction. <i>Journal of Organometallic Chemistry</i> , 2011, 696, 3316-3321.	0.8	11
54	Towards a potential 4,4 ² -(1,2,4,5-tetrazine-3,6-diyl) dibenzoic spacer to construct metal-organic frameworks. <i>New Journal of Chemistry</i> , 2015, 39, 6453-6458.	1.4	11

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55	Laser-Induced Graphene Electrodes Modified with a Molecularly Imprinted Polymer for Detection of Tetracycline in Milk and Meat. <i>Sensors</i> , 2022, 22, 269.	2.1	11
56	Carbon Dots as Sensing Layer for Printed Humidity and Temperature Sensors. <i>Nanomaterials</i> , 2020, 10, 2446.	1.9	10
57	Luminescence and Magnetic Properties of Two Three-Dimensional Terbium and Dysprosium MOFs Based on Azobenzene-4,4'-Dicarboxylic Linker. <i>Polymers</i> , 2016, 8, 39.	2.0	9
58	Portable Instrument for Hemoglobin Determination Using Room-Temperature Phosphorescent Carbon Dots. <i>Nanomaterials</i> , 2020, 10, 825.	1.9	9
59	Quantitative assessment of cellular uptake and differential toxic effects of HgSe nanoparticles in human cells. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 1979-1988.	1.6	9
60	Solvent dependent behaviour of poly(9-vinylcarbazole)-based polymer light emitting diodes. <i>Solid-State Electronics</i> , 2010, 54, 1269-1272.	0.8	8
61	A new 2D cadmium chloride network with 2-aminopyrimidine displaying long lifetime photoluminescence emission. <i>Polyhedron</i> , 2011, 30, 1295-1298.	1.0	8
62	Unique Metal-Organic-Framework with based on 4-tetrazolate-4-biphenyl carboxylate spacer: Blue-green photoluminescence. <i>Polyhedron</i> , 2014, 80, 228-232.	1.0	8
63	Slow relaxation of magnetization and luminescence properties of a novel dysprosium and pyrene-1,3,6,8-tetrakisulfonate based MOF. <i>New Journal of Chemistry</i> , 2018, 42, 832-837.	1.4	7
64	Direct synthesis of PbS nanocrystals capped with 4-fluorothiophenol in semiconducting polymer. <i>Materials Chemistry and Physics</i> , 2010, 122, 459-462.	2.0	6
65	Bidimensional cadmium metal-organic frameworks based on 1,3-bis(4-pyridyl)propane displaying long lifetime photoluminescence emission. <i>Polyhedron</i> , 2015, 91, 47-51.	1.0	6
66	Carbon dots-inspired fluorescent cyclodextrins: competitive supramolecular α -(bio)sensors. <i>Nanoscale</i> , 2020, 12, 9178-9185.	2.8	6
67	Synthesis of a thermoresponsive crosslinked MEO2MA polymer coating on microclusters of iron oxide nanoparticles. <i>Scientific Reports</i> , 2021, 11, 3947.	1.6	6
68	A glioclazide complex based on palladium towards Alzheimer's disease: promising protective activity against Al^{2+} -induced toxicity in <i>C. elegans</i> . <i>Chemical Communications</i> , 2022, 58, 1514-1517.	2.2	6
69	Simple determination of the herbicide napropamide in water and soil samples by room temperature phosphorescence. <i>Pest Management Science</i> , 2005, 61, 816-820.	1.7	5
70	Magnetic and Luminescent Properties of Isostructural 2D Coordination Polymers Based on 2-Pyrimidinecarboxylate and Lanthanide Ions. <i>Crystals</i> , 2020, 10, 571.	1.0	5
71	Comparison of Laser-Synthesized Nanographene-Based Electrodes for Flexible Supercapacitors. <i>Micromachines</i> , 2020, 11, 555.	1.4	5
72	Reversal of a Fluorescent Fluoride Chemosensor from Turn-Off to Turn-On Based on Aggregation Induced Emission Properties. <i>ACS Sensors</i> , 2022, 7, 37-43.	4.0	5

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73	Influence of SPP co-stabilizer on the optical properties of CdS quantum dots grown in PVA. <i>Physics Procedia</i> , 2009, 2, 335-338.	1.2	4
74	Acoustic characterization of laser-induced graphene film thermoacoustic loudspeakers. , 2019, , .		4
75	Room-temperature, phosphorimetric determination of the beta-blocking agent pindolol in pharmaceutical tablets, urine and blood serum. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1945-1948.	1.9	3
76	2D-cadmium MOF and gismondine-like zinc coordination network based on the N-(2-tetrazolethyl)-4-glycine linker. <i>New Journal of Chemistry</i> , 2015, 39, 3982-3986.	1.4	3
77	Development of a printed sensor for volatile organic compound detection at 1/4g/L-level. <i>Sensors and Actuators B: Chemical</i> , 2016, 230, 115-122.	4.0	3
78	Optimization of Cost-Effective and Reproducible Flexible Humidity Sensors Based on Metal-Organic Frameworks. <i>Sensors</i> , 2020, 20, 6981.	2.1	3
79	Photoluminescence of the first examples of metal-organic frameworks with two novel tetrazolatephenyl acetic acid derivatives: an experimental and theoretical study. <i>CrystEngComm</i> , 2014, 16, 10492-10496.	1.3	1
80	Experimental and theoretical study of photoluminescence and magnetic properties of metal-organic polymers based on squarate and tetrazolate moieties containing linkers. <i>New Journal of Chemistry</i> , 2015, 39, 9926-9930.	1.4	1
81	Cost-Effective Techniques for Sensors Technology. <i>Journal of Sensors</i> , 2019, 2019, 1-2.	0.6	1
82	Synthesis and characterization of PbS nanocrystals in MDMO-PPV semiconducting polymer for photovoltaic applications. , 2009, , .		0
83	Exploring the Slow Magnetic Relaxation of a Family of Photoluminescent 3D Lanthanide-Organic Frameworks Based on Dicarboxylate Ligands. <i>Magnetochemistry</i> , 2021, 7, 41.	1.0	0
84	Selectivity of Relative Humidity Using a CP Based on S-Block Metal Ions. <i>Sensors</i> , 2022, 22, 1664.	2.1	0
85	Sensing Capacity in Dysprosium Metal-Organic Frameworks Based on 5-Aminoisophthalic Acid Ligand. <i>Sensors</i> , 2022, 22, 3392.	2.1	0