Fernando LÃ³pez-Arbeloa

List of Publications by Year
in descending order

91 papers	4,131 citations	94415 37 h-index	114455 63 g-index
92 all docs	92 docs citations	92 times ranked	3607 citing authors

#	Article	IF	Citations
1	Flourescence self-quenching of the molecular forms of Rhodamine B in aqueous and ethanolic solutions. Journal of Luminescence, 1989, 44, 105-112.	3.1	205
2	Characterization of Rhodamine 6G Aggregates Intercalated in Solid Thin Films of Laponite Clay. 2 Fluorescence Spectroscopy. Journal of Physical Chemistry B, 2005, 109, 7443-7450.	2.6	181
3	Hydrogen-bonding effect on the photophysical properties of 7-aminocoumarin derivatives. The Journal of Physical Chemistry, 1993, 97, 4704-4707.	2.9	148
4	Luminescence Properties of Rhodamine 6G Intercalated in Surfactant/Clay Hybrid Thin Solid Films. Langmuir, 2004, 20, 4715-4719.	3.5	145
5	Correlations between photophysics and lasing properties of dipyrromethene€“BF2 dyes in solution. Chemical Physics Letters, 1999, 299, 315-321.	2.6	142
6	Structural, photophysical and lasing properties of pyrromethene dyes. International Reviews in Physical Chemistry, 2005, 24, 339-374.	2.3	137
7	Aggregate formation of rhodamine 6G in aqueous solution. Journal of the Chemical Society, Faraday Transactions 2, 1982, 78, 989.	1.1	135
8	Photoresponse and anisotropy of rhodamine dye intercalated in ordered clay layered films. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2007, 8, 85-108.	11.6	131
9	8-PropargylaminoBODIPY: unprecedented blue-emitting pyrromethene dye. Synthesis, photophysics and laser properties. Chemical Communications, 2010, 46, 5103.	4.1	121
10	Dimerization and trimerization of rhodamine 6G in aqueous solution. Effect on the fluorescence quantum yield. Journal of the Chemical Society, Faraday Transactions 2, 1988, 84, 1903.	1.1	117
11	Photophysical and Lasing Properties of New Analogs of the Boronâ^'Dipyrromethene Laser Dye PM567 in Liquid Solution. Journal of Physical Chemistry A, 2002, 106, 7736-7742.	2.5	116
12	Autofluorescence: Biological functions and technical applications. Plant Science, 2015, 236, 136-145.	3.6	106
13	Photophysical Properties of the Pyrromethene 597 Dye:â€‰ Solvent Effect. Journal of Physical Chemistry A, 2004, 108, 5503-5508.	2.5	94
14	Intramolecular Charge Transfer in Pyrromethene Laser Dyes: Photophysical Behaviour of PM650. ChemPhysChem, 2004, 5, 1762-1771.	2.1	88
15	Influence of the molecular structure and the nature of the solvent on the absorption and fluorescence characteristics of rhodamines. Chemical Physics, 1989, 130, 371-378.	1.9	85
16	Characterization of Rhodamine 6G Aggregates Intercalated in Solid Thin Films of Laponite Clay. 1. Absorption Spectroscopy. Journal of Physical Chemistry B, 2004, 108, 20030-20037.	2.6	84
17	Orientation of Adsorbed Dyes in the Interlayer Space of Clays. 2 Fluorescence Polarization of Rhodamine 6G in Laponite Films. Chemistry of Materials, 2006, 18, 1407-1416.	6.7	80
18	8-Phenyl-Substituted DipyrrometheneÂ·BF2Complexes as Highly Efficient and Photostable Laser Dyes. Journal of Physical Chemistry A, 2004, 108, 3315-3323.	2.5	79

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19	Orientation and aggregation of cationic laser dyes in a fluoromica: polarized spectrometry studies. Applied Clay Science, 2002, 22, 125-136.	5.2	78
20	Red-edge-wavelength finely-tunable laser action from new BODIPY dyes. Physical Chemistry Chemical Physics, 2010, 12, 7804.	2.8	72
21	Photophysical properties of a new 8-phenyl analogue of the laser dye PM567 in different solvents: internal conversion mechanisms. Chemical Physics Letters, 2004, 385, 29-35.	2.6	68
22	On the aggregation of rhodamine B in ethanol. Chemical Physics Letters, 1988, 148, 253-258.	2.6	65
23	On the mechanism of radiationless deactivation of rhodamines. Chemical Physics, 1992, 160, 123-130.	1.9	63
24	Characterization of Supported Solid Thin Films of Laponite Clay. Intercalation of Rhodamine 6G Laser Dye. Langmuir, 2004, 20, 5709-5717.	3.5	60
25	Synthesis, Photophysical Properties, and Laser Behavior of 3-Amino and 3-Acetamido BODIPY Dyes. Organic Letters, 2007, 9, 4183-4186.	4.6	60
26	New Analogues of the BODIPY Dye PM597: Photophysical and Lasing Properties in Liquid Solutions and in Solid Polymeric Matrices. Journal of Physical Chemistry A, 2009, 113, 8118-8124.	2.5	56
27	Spectral Properties of Rhodamine 3B Adsorbed on the Surface of Montmorillonites with Variable Layer Charge. Langmuir, 2007, 23, 1851-1859.	3.5	55
28	Spectroscopic Characterization of the Adsorption of Rhodamine 3B in Hectorite. Langmuir, 2000, 16, 1285-1291.	3.5	53
29	Adsorption of Rhodamine 3B Dye on Saponite Colloidal Particles in Aqueous Suspensions. Langmuir, 2002, 18, 2658-2664.	3.5	52
30	Supramolecular Chemistry in the Structure Direction of Microporous Materials from Aromatic Structure-Directing Agents. Journal of the American Chemical Society, 2008, 130, 13274-13284.	13.7	52
31	Theoretical study of the ground and excited electronic states of pyrromethene 546 laser dye and related compounds. Chemical Physics, 2004, 296, 13-22.	1.9	48
32	Orientation of Adsorbed Dyes in the Interlayer Space of Clays. 1. Anisotropy of Rhodamine 6G in Laponite Films by Vis-Absorption with Polarized Light. Chemistry of Materials, 2005, 17, 4134-4141.	6.7	48
33	The fluorescence quenching mechanisms of Rhodamine 6G in concentrated ethanolic solution. Journal of Photochemistry and Photobiology A: Chemistry, 1988, 45, 313-323.	3.9	47
34	Photophysical properties of rhodamines with monoethylamino groups R19 and R6G in waterâ€"ethanol mixtures. Journal of Photochemistry and Photobiology A: Chemistry, 1991, 56, 313-321.	3.9	47
35	Spectroscopy of Rhodamine 6G Adsorbed on Sepiolite Aqueous Suspensions. Journal of Colloid and Interface Science, 1997, 187, 105-112.	9.4	47
36	New laser dye based on the 3-styryl analog of the BODIPY dye PM567. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 198, 192-199.	3.9	45

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37	Difluoro-boron-triaza-anthracene: a laser dye in the blue region. Theoretical simulation of alternative difluoro-boron-diaza-aromatic systems. Physical Chemistry Chemical Physics, 2011, 13, 3437-3445.	2.8	43
38	Aggregation of Rhodamine 3B Adsorbed in Wyoming Montmorillonite Aqueous Suspensions. Journal of Colloid and Interface Science, 2002, 246, 281-287.	9.4	35
39	Structural and spectroscopic characteristics of Pyrromethene 567 laser dye. A theoretical approach. Physical Chemistry Chemical Physics, 2004, 6, 4247-4253.	2.8	35
40	Molecular Insights into the Self-Aggregation of Aromatic Molecules in the Synthesis of Nanoporous Aluminophosphates: A Multilevel Approach. Journal of the American Chemical Society, 2009, 131, 16509-16524.	13.7	35
41	Laser and Physical Properties of BODIPY Chromophores in New Fluorinated Polymeric Materials. Journal of Physical Chemistry C, 2007, 111, 1508-1516.	3.1	34
42	Luminescence properties of rhodamines in water/ethanol mixtures. Journal of Luminescence, 1991, 48-49, 400-404.	3.1	32
43	Photophysical and laser emission studies of 8-polyphenylene-substituted BODIPY dyes in liquid solution and in solid polymeric matrices. Photochemical and Photobiological Sciences, 2008, 7, 802-813.	2.9	32
44	Influence of fluorinated group on the photophysics of 7-aminocoumarins. Journal of Luminescence, 1996, 68, 149-155.	3.1	31
45	New fluorescent polarization method to evaluate the orientation of adsorbed molecules in uniaxial 2D layered materials. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 181, 44-49.	3.9	28
46	Photophysical Characterization of New 3-Amino and 3-Acetamido BODIPY Dyes with Solvent Sensitive Properties. Journal of Fluorescence, 2008, 18, 899-907.	2.5	28
47	Binary solvent effects on the absorption and emission of 7-aminocoumarins. Journal of Luminescence, 1994, 59, 369-375.	3.1	27
48	Characterization of Rhodamine 6G Adsorbed onto Hectorite by Electronic Spectroscopy. Journal of Colloid and Interface Science, 1995, 171, 439-445.	9.4	27
49	(1R,2S)-Ephedrine: A New Self-Assembling Chiral Template for the Synthesis of Aluminophosphate Frameworks. Journal of Physical Chemistry C, 2014, 118, 3069-3077.	3.1	27
50	Application of Fluorescence with Polarized Light to Evaluate the Orientation of Dyes Adsorbed in Layered Materials. Journal of Fluorescence, 2006, 16, 233-240.	2.5	26
51	Adsorption of fluorescent R6G dye into organophilic C12TMA laponite films. Journal of Colloid and Interface Science, 2008, 321, 212-219.	9.4	26
52	Two-step resonance energy transfer between dyes in layered silicate films. Journal of Colloid and Interface Science, 2011, 364, 497-504.	9.4	25
53	Intercalation of cationic azobenzene derivatives in a synthetic mica and their photoresponse. Applied Clay Science, 2001, 19, 47-58.	5.2	24
54	Cooperative Effect of Hydroxide and Fluorinated Organic Ions as Structure Directing Agent in the Synthesis of Crystalline Microporous Aluminophosphates. Chemistry of Materials, 2008, 20, 987-995.	6.7	23

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55	Photophysical Study of New Versatile Multichromophoric Diads and Triads with BODIPY and Polyphenylene Groups. Journal of Physical Chemistry A, 2008, 112, 10816-10822.	2.5	23
56	Effect of surfactant C12TMA molecules on the self-association of R6G dye in thin films of laponite clay. Materials Chemistry and Physics, 2009, 116, 550-556.	4.0	22
57	Supramolecular Chemistry Controlled by Conformational Space during Structure Direction of Nanoporous Materials: Self-Assembly of Ephedrine and Pseudoephedrine. Journal of Physical Chemistry C, 2015, 119, 28214-28225.	3.1	22
58	Molecular structure effects on the lasing properties of rhodamines. Journal of Photochemistry and Photobiology A: Chemistry, 1990, 55, 97-103.	3.9	21
59	Photophysics of Rhodamine 6G Laser Dye in Ordered Surfactant (C12TMA)/Clay (Laponite) Hybrid Films. Journal of Physical Chemistry C, 2009, 113, 965-970.	3.1	20
60	On the Arrangements of R6G Molecules in Organophilic C12TMA/Lap Clay Films for Low Dye Loadings. Langmuir, 2010, 26, 930-937.	3.5	19
61	Using random laser emission to investigate the bonding energy of laser dye dimers. Chemical Physics Letters, 2008, 464, 245-248.	2.6	17
62	Luminescent 3-hydroxyflavone nanocomposites with a tuneable refractive index for photonics and UV detection by plasma assisted vacuum deposition. Journal of Materials Chemistry C, 2014, 2, 6561-6573.	5.5	16
63	Chiral discrimination in the dissociation of the intermolecular excimer of N-acetyl-1-pyrenylalanine methyl ester. Journal of the American Chemical Society, 1987, 109, 3068-3076.	13.7	14
64	Aggregation behavior of (S)-(â^')-N-benzylpyrrolidine-2-methanol in the synthesis of the AFI structure in the presence of dopants. Microporous and Mesoporous Materials, 2009, 119, 299-305.	4.4	14
65	Supramolecular chemistry of chiral (1R,2S)-ephedrine confined within the AFI framework as a function of the synthesis conditions. Catalysis Today, 2016, 277, 9-20.	4.4	14
66	Intermolecular exciplex formation between 1-pyrenylalanine and chiral amines. Journal of Photochemistry and Photobiology A: Chemistry, 1988, 44, 63-83.	3.9	13
67	Self-association of the molecular forms of Rhodamine 19. Solvent effect. Spectrochimica Acta Part A: Molecular Spectroscopy, 1989, 45, 1201-1206.	0.1	12
68	Microporous aluminophosphates synthesized with 1,2,3-trimethylimidazolium and fluoride. Dalton Transactions, 2016, 45, 7616-7626.	3.3	12
69	INTRAMOLECULAR EXCIPLEX FORMATION IN NÎ±-ACETYL-1-PYRENYLALANYL-1-METHYLTRYPTOPHAN METHYLESTER. Photochemistry and Photobiology, 1985, 42, 341-346.	2.5	11
70	Environmental effects on the photophysics of pyrromethene 556. Physical Chemistry Chemical Physics, 1999, 1, 791-795.	2.8	11
71	Comparison of the structure-directing effect of ephedrine and pseudoephedrine during crystallization of nanoporous aluminophosphates. Microporous and Mesoporous Materials, 2017, 254, 211-224.	4.4	11
72	Concerning the color change of pyrromethene 650 dye in electron-donor solvents. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 184, 298-305.	3.9	10

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73	Effect of Fluorine and Molecular Charge-State on the Aggregation Behavior of (S)-(â^')-N-Benzylpyrrolidine-2-methanol Confined within the AFI Nanoporous Structure. Journal of Physical Chemistry C, 2013, 117, 8832-8839.	3.1	9
74	Supramolecular chemistry controlled by packing interactions during structure-direction of nanoporous materials: Effect of the addition of methyl groups on ephedrine derivatives. Microporous and Mesoporous Materials, 2017, 239, 432-443.	4.4	9
75	Conformational Space of (1R,2S)-Dimethyl-Ephedrinium and (1S,2S)-Dimethyl-Pseudoephedrinium in the Synthesis of Nanoporous Aluminophosphates. Journal of Physical Chemistry C, 2018, 122, 20377-20390.	3.1	9
76	Improving the fluorescence polarization method to evaluate the orientation of fluorescent systems adsorbed in ordered layered materials. Journal of Luminescence, 2009, 129, 1336-1340.	3.1	8
77	ICP-2: A New Hybrid Organo-Inorganic Ferrierite Precursor with Expanded Layers Stabilized by Ï€â€“Ï€ Stacking Interactions. Journal of Physical Chemistry C, 2017, 121, 24114-24127.	3.1	8
78	Structure Directing Effect of (1S,2S)-2-Hydroxymethyl-1-benzyl-1-methylpyrrolidinium in the Synthesis of AlPO-5. Journal of Physical Chemistry C, 2010, 114, 8320-8327.	3.1	7
79	Un-assemblable layered aluminophosphates from self-assembling structure-directing agents: Effect of fluorine. Microporous and Mesoporous Materials, 2014, 183, 99-107.	4.4	6
80	Intermolecular excimer formation of Nacetyl-2-pyrenylalanine ethyl ester. Journal of Photochemistry and Photobiology A: Chemistry, 1988, 45, 295-312.	3.9	5
81	â€œBottle-around-a-shipâ€•confinement of high loadings of Acridine Orange in new aluminophosphate crystalline materials. Journal of Materials Chemistry, 2006, 16, 1765-1771.	6.7	5
82	Bichromatic laser emission from dipyrromethene dyes incorporated into solid polymeric media. Journal of Applied Physics, 2007, 101, 113110.	2.5	5
83	Conformational sieving effect of organic structure-directing agents during the synthesis of zeolitic materials. Microporous and Mesoporous Materials, 2019, 287, 56-64.	4.4	5
84	Chiral discrimination in the intermolecular excimer formation of N-acetyl-1-pyrenylalanine methyl ester in chiral solvents. Journal of Photochemistry and Photobiology A: Chemistry, 1988, 42, 133-148.	3.9	4
85	Photophysics and lasing correlation of pyrromethene 567 dye in crosslinked polymeric networks. Journal of Luminescence, 2007, 126, 833-837.	3.1	4
86	Naphthyl-Containing Organophosphonate Derivatives of Keggin-Type Polyoxotungstates. Inorganics, 2016, 4, 14.	2.7	4
87	Influence of hydrogen bonding, main chain-side chain interactions, and protecting groups on the excimer formation of bis(pyrenylalanine) peptides. Biopolymers, 1987, 26, 1833-1857.	2.4	3
88	Precisely voltage tunable polymeric light emitting diodes by controlling polymer chemical oxidation and adding inorganic semiconducting nanoparticles. From blue to red stopping at white in the same device. Organic Electronics, 2009, 10, 1606-1609.	2.6	3
89	Fluorescence Anisotropy to Study the Preferential Orientation of Fluorophores in Ordered Bi-Dimensional Systems: Rhodamine 6G/Laponite Layered Films. Reviews in Fluorescence, 2010, , 1-35.	0.5	3
90	Self-assembly of chiral (1R,2S)-ephedrine and (1S,2S)-pseudoephedrine into low-dimensional aluminophosphate materials driven by their amphiphilic nature. Physical Chemistry Chemical Physics, 2018, 20, 8564-8578.	2.8	2

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91	A combination of proton spin diffusion NMR and molecular simulations to probe supramolecular assemblies of organic molecules in nanoporous materials. Dalton Transactions, 2022, 51, 5434-5440.	3.3	2