Isabelle Leray

List of Publications by Year
in descending order

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69	4,760	186265 28	98798 67
papers	citations	h-index	g-index

74	74	74	4895
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Design principles of fluorescent molecular sensors for cation recognition. Coordination Chemistry Reviews, 2000, 205, 3-40.	18.8	2,230
2	Lead and Mercury Sensing by Calixarene-Based Fluoroionophores Bearing Two or Four Dansyl Fluorophores. Chemistry - A European Journal, 2004, 10, 4480-4490.	3.3	241
3	A mesoporous silica functionalized by a covalently bound calixarene-based fluoroionophore for selective optical sensing of mercury(ii) in water. Journal of Materials Chemistry, 2005, 15, 2965.	6.7	202
4	Calixareneâ€Based Fluorescent Molecular Sensors for Toxic Metals. European Journal of Inorganic Chemistry, 2009, 2009, 3525-3535.	2.0	166
5	A highly sensitive and selective fluorescent molecular sensor for Pb(ii) based on a calix[4]arene bearing four dansyl groups. Chemical Communications, 2003, , 996.	4.1	138
6	Synthesis and Photophysical and Cation-Binding Properties of Mono- and Tetranaphthylcalix[4]arenes as Highly Sensitive and Selective Fluorescent Sensors for Sodium. Chemistry - A European Journal, 2001, 7, 4590-4598.	3.3	112
7	Highly Selective and Sensitive Phosphane Sulfide Derivative for the Detection of Hg2+in an Organoaqueous Medium. Organic Letters, 2007, 9, 1133-1136.	4.6	97
8	Ion-responsive supramolecular fluorescent systems based on multichromophoric calixarenes: A review. Inorganica Chimica Acta, 2007, 360, 765-774.	2.4	85
9	A new calix[4]arene-based fluorescent sensor for sodium ion. Chemical Communications, 1999, , 795-796.	4.1	83
10	Fluorescent Phosphane Selenide As Efficient Mercury Chemodosimeter. Organic Letters, 2011, 13, 1182-1185.	4.6	81
11	A highly selective fluorescent molecular sensor for potassium based on a calix[4]bisazacrown bearing boron-dipyrromethene fluorophores. New Journal of Chemistry, 2005, 29, 1089.	2.8	79
12	Selective detection of cesium by a water-soluble fluorescent molecular sensor based on a calix[4]arene-bis(crown-6-ether). Chemical Communications, 2006, , 4224.	4.1	76
13	Photophysics of calixarenes bearing two or four dansyl fluorophores: charge, proton and energy transfers. Photochemical and Photobiological Sciences, 2004, 3, 374-380.	2.9	52
14	Fluorimetric lead detection in a microfluidic device. Lab on A Chip, 2009, 9, 2818.	6.0	45
15	Synthesis and binding properties of calix[4]biscrown-based fluorescent molecular sensors for caesium or potassium ions. Perkin Transactions II RSC, 2002, , 1429.	1.1	43
16	Novel Fluorophores: Efficient Synthesis and Photophysical Properties. Organic Letters, 2004, 6, 739-742.	4.6	43
17	Organic sulfides photooxidation using sensitizers covalently grafted on silica: towards a more efficient and selective solar photochemistry. Journal of Photochemistry and Photobiology A: Chemistry, 1999, 124, 1-8.	3.9	42
18	Calixarene-Based Fluorescent Sensors for Cesium Cations Containing BODIPY Fluorophore. Journal of Physical Chemistry A, 2015, 119, 6065-6073.	2.5	37

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19	Photophysics of cyclic multichromophoric systems based on Î²-cyclodextrin and calix[4]arene with appended pyridin-2â€²-yl-1,2,3-triazolegroups. Photochemical and Photobiological Sciences, 2008, 7, 1323-1331.	2.9	36
20	Chemically derived optical sensors for the detection of cesium ions. Coordination Chemistry Reviews, 2016, 310, 1-15.	18.8	36
21	Sensitized Emission of Luminescent Lanthanide Complexes Based on a Phosphane Oxide Derivative. Journal of Physical Chemistry A, 2010, 114, 3264-3269.	2.5	34
22	Ion-responsive fluorescent compounds. Journal of Photochemistry and Photobiology A: Chemistry, 2000, 135, 163-169.	3.9	33
23	Aggregation-induced emission enhancement upon Al³⁺ complexation with a tetrasulfonated calix[4]bisazacrown fluorescent molecular sensor. Organic and Biomolecular Chemistry, 2014, 12, 4335-4341.	2.8	33
24	Fluorescent molecular probe based optical fiber sensor dedicated to pH measurement of concrete. Sensors and Actuators B: Chemical, 2021, 327, 128906.	7.8	32
25	Reversible Bulk Photorelease of Strontium Ion from a Crown Ether-Linked Merocyanine. ChemPhysChem, 2002, 3, 668.	2.1	31
26	Synthesis of Novel Rod-Shaped and Star-Shaped Fluorescent Phosphane Oxidesâ€"Nonlinear Optical Properties and Photophysical Properties. Chemistry - A European Journal, 2006, 12, 9056-9065.	3.3	30
27	Selective fluorimetric detection of cadmium in a microfluidic device. Microchemical Journal, 2013, 106, 167-173.	4.5	30
28	Rhod-5N as a Fluorescent Molecular Sensor of Cadmium(II) Ion. Journal of Fluorescence, 2008, 18, 1077-1082.	2.5	28
29	Label-free optofluidic sensor based on polymeric microresonator for the detection of cadmium ions in tap water. Sensors and Actuators B: Chemical, 2019, 280, 77-85.	7.8	28
30	Photophysics of Calix[4]biscrown-Based Ditopic Receptors of Caesium Containing One or Two Dioxocoumarin Fluorophores. Journal of Fluorescence, 2004, 14, 451-458.	2.5	27
31	Synthesis, Fluorescence, and Twoâ€Photon Absorption of Bidentate Phosphane Oxide Derivatives: Complexation with Pb²⁺ and Cd²⁺ Cations. Chemistry - A European Journal, 2008, 14, 5941-5950.	3.3	27
32	Characterization of alumina surfaces by fluorescence spectroscopy : Part 2. Photophysics of a bound pyrene derivative as a probe of the spatial distribution of reactive hydroxyl groups. Physical Chemistry Chemical Physics, 2003, 5, 758.	2.8	25
33	Water-soluble aluminium fluorescent sensor based on aggregation-induced emission enhancement. New Journal of Chemistry, 2019, 43, 15302-15310.	2.8	25
34	Porphyrins as probe molecules in the detection of gaseous pollutants: detection of benzene using cationic porphyrins in polymer films. Sensors and Actuators B: Chemical, 1999, 54, 243-251.	7.8	24
35	Characterization of alumina surfaces by fluorescence spectroscopy. Part 1. Grafting a pyrene derivative on Î³- and Î´-alumina supports. New Journal of Chemistry, 2002, 26, 411-415.	2.8	24
36	A novel microfluidic flow-injection analysis device with fluorescence detection for cation sensing. Application to potassium. Analytical and Bioanalytical Chemistry, 2007, 387, 2627-2632.	3.7	24

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37	A Highly Selective Potassium Sensor for the Detection of Potassium in Living Tissues. Chemistry - A European Journal, 2016, 22, 14902-14911.	3.3	23
38	Femtosecond to Subnanosecond Multistep Calcium Photoejection from a Crown Etherâ€Linked Merocyanine. ChemPhysChem, 2009, 10, 276-281.	2.1	21
39	A selective lead sensor based on a fluorescent molecular probe grafted on a PDMS microfluidic chip. Journal of Photochemistry and Photobiology A: Chemistry, 2012, 234, 115-122.	3.9	21
40	New sensitive and selective calixarene-based fluorescent sensors for the detection of Cs⁺ in an organoaqueous medium. New Journal of Chemistry, 2017, 41, 7162-7170.	2.8	21
41	Porphyrins as probe molecules in the detection of gaseous pollutants I: Diffusion of pyridine in polystyrene films containing zinc-tetraphenylporphyrin. Sensors and Actuators B: Chemical, 1996, 37, 67-74.	7.8	20
42	Photodynamics of excitation energy transfer in self-assembled dyads. Evidence for back transfer. Photochemical and Photobiological Sciences, 2005, 4, 280.	2.9	20
43	Highly selective and sensitive Hg2+ fluorescent sensors based on a phosphane sulfide derivative. Organic and Biomolecular Chemistry, 2009, 7, 1665.	2.8	19
44	Photoinduced electron transfer sensitization of anisyl ether cleavage: studies in homogeneous solution and at the surface of one or two solids. Journal of Photochemistry and Photobiology A: Chemistry, 2000, 132, 43-52.	3.9	17
45	Mercury detection in a microfluidic device by using a molecular sensor soluble in organoaqueous solvent. Photochemical and Photobiological Sciences, 2012, 11, 1737-1743.	2.9	16
46	Photoinduced Cation Translocation in a Calix[4]biscrown: Towards a New Type of Lightâ€Driven Molecular Shuttle. ChemPhysChem, 2010, 11, 2416-2423.	2.1	14
47	Synthesis, Photophysical, and Twoâ€Photon Absorption Properties of Elongated Phosphane Oxide and Sulfide Derivatives. Chemistry - an Asian Journal, 2011, 6, 1080-1091.	3.3	14
48	New water-soluble fluorescent sensors based on calix[4]arene biscrown-6 for selective detection of cesium. Journal of Photochemistry and Photobiology A: Chemistry, 2018, 364, 355-362.	3.9	14
49	Optical chemosensors for metal ions in aqueous medium with polyfluorene derivatives: Sensitivity, selectivity and regeneration. Sensors and Actuators B: Chemical, 2019, 286, 521-532.	7.8	14
50	Kinetics, Thermodynamics, and Modeling of Complex Formation between Calix[4]biscrowns and Cesium. Journal of Physical Chemistry B, 2009, 113, 14247-14256.	2.6	13
51	Ultra-sensitive and selective Hg²⁺ chemosensors derived from substituted 8-hydroxyquinoline analogues. New Journal of Chemistry, 2014, 38, 1072-1078.	2.8	13
52	Multichromophoric supramolecular systems. Recovery of the distributions of decay times from the fluorescence decays. Dalton Transactions, 2009, , 3988.	3.3	12
53	Norbadione A: Kinetics and Thermodynamics of Cesium Uptake in Aqueous and Alcoholic Media. Journal of Physical Chemistry B, 2010, 114, 12655-12665.	2.6	12
54	Films of polyvinylpyrrolidone containing zinc tetraphenylporphyrin: evidence for aggregation of porphyrins in the presence of pyridine. Thin Solid Films, 1997, 303, 295-301.	1.8	11

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55	Synthesis and photophysical properties of extended Ï€ conjugated naphthalimides. Photochemical and Photobiological Sciences, 2017, 16, 539-546.	2.9	11
56	Synthesis and Photophysical Properties of a Star-Shaped Fluorescent Phosphane Sulfide. Letters in Organic Chemistry, 2007, 4, 185-188.	0.5	10
57	PCT (Photoinduced Charge Transfer) Fluorescent Molecular Sensors for Cation Recognition. Springer Series on Fluorescence, 2001, , 187-207.	0.8	9
58	Selective Fluorimetric Detection of Primary Alkylamines by a Calix[6]arene Funnel Complex. Chemistry - A European Journal, 2017, 23, 8669-8677.	3.3	9
59	Photophysical properties of poly(triptycene vinylene) derivatives and effect of nitrotoluene exposure. Chemical Physics Letters, 2010, 501, 54-58.	2.6	8
60	Thermodynamics and Kinetics of the Complexation Reaction of Lead by Calixâ€ÐANS4. ChemPhysChem, 2010, 11, 3355-3362.	2.1	8
61	Determination of lead in water by combining precolumn adsorption and fluorimetric detection in a microfluidic device. Analytical Methods, 2012, 4, 989.	2.7	6
62	Geometrical optimization of organic microlasers for microfluidic chemical sensing. Applied Physics B: Lasers and Optics, 2014, 117, 501-508.	2.2	6
63	Sensitive and selective detection of uranyl ions based on aggregate-breaking mechanism. Journal of Photochemistry and Photobiology A: Chemistry, 2019, 373, 139-145.	3.9	6
64	Synthesis and complexing properties of molecular probes linked with fluorescent phosphane oxide derivatives. Journal of Photochemistry and Photobiology A: Chemistry, 2016, 318, 25-32.	3.9	4
65	Calixarene-Based Fluorescent Molecular Sensors. , 2017, , 197-226.		3
66	Can betaine pyridinium derivatives be used to control the photoejection of cation?. Physical Chemistry Chemical Physics, 2016, 18, 15384-15393.	2.8	2
67	Is it possible to assimilate/predict the photoejection of a cation? Example of azacrown-substituted [(bpy)Re(CO)<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e2405" altimg="si94.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math>L]<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e2413" altimg="si17.svg"><mml:msup><mml:mrow /><mml:mrow><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math> complexes.	3.9	2
68	Detection of nitro-aromatic compounds by optical gas sensors based on sensitive or photoluminescent polymers. , 2006, 6189, 204.		1
69	Selective detection of heavy metal ions by calixarene-based fluorescent molecular sensors. , 2012, , .		0