

# Isabelle Leray

## List of Publications by Year in descending order

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69  
papers

4,760  
citations

186209

28  
h-index

98753

67  
g-index

74  
all docs

74  
docs citations

74  
times ranked

4895  
citing authors

#	ARTICLE	IF	CITATIONS
1	Design principles of fluorescent molecular sensors for cation recognition. <i>Coordination Chemistry Reviews</i> , 2000, 205, 3-40.	9.5	2,230
2	Lead and Mercury Sensing by Calixarene-Based Fluoroionophores Bearing Two or Four Dansyl Fluorophores. <i>Chemistry - A European Journal</i> , 2004, 10, 4480-4490.	1.7	241
3	A mesoporous silica functionalized by a covalently bound calixarene-based fluoroionophore for selective optical sensing of mercury(ii) in water. <i>Journal of Materials Chemistry</i> , 2005, 15, 2965.	6.7	202
4	Calixarene-Based Fluorescent Molecular Sensors for Toxic Metals. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 3525-3535.	1.0	166
5	A highly sensitive and selective fluorescent molecular sensor for Pb(ii) based on a calix[4]arene bearing four dansyl groups. <i>Chemical Communications</i> , 2003, , 996.	2.2	138
6	Synthesis and Photophysical and Cation-Binding Properties of Mono- and Tetranaphthylcalix[4]arenes as Highly Sensitive and Selective Fluorescent Sensors for Sodium. <i>Chemistry - A European Journal</i> , 2001, 7, 4590-4598.	1.7	112
7	Highly Selective and Sensitive Phosphane Sulfide Derivative for the Detection of Hg <sup>2+</sup> in an Organoaqueous Medium. <i>Organic Letters</i> , 2007, 9, 1133-1136.	2.4	97
8	Ion-responsive supramolecular fluorescent systems based on multichromophoric calixarenes: A review. <i>Inorganica Chimica Acta</i> , 2007, 360, 765-774.	1.2	85
9	A new calix[4]arene-based fluorescent sensor for sodium ion. <i>Chemical Communications</i> , 1999, , 795-796.	2.2	83
10	Fluorescent Phosphane Selenide As Efficient Mercury Chemodosimeter. <i>Organic Letters</i> , 2011, 13, 1182-1185.	2.4	81
11	A highly selective fluorescent molecular sensor for potassium based on a calix[4]bisazacrown bearing boron-dipyrromethene fluorophores. <i>New Journal of Chemistry</i> , 2005, 29, 1089.	1.4	79
12	Selective detection of cesium by a water-soluble fluorescent molecular sensor based on a calix[4]arene-bis(crown-6-ether). <i>Chemical Communications</i> , 2006, , 4224.	2.2	76
13	Photophysics of calixarenes bearing two or four dansyl fluorophores: charge, proton and energy transfers. <i>Photochemical and Photobiological Sciences</i> , 2004, 3, 374-380.	1.6	52
14	Fluorimetric lead detection in a microfluidic device. <i>Lab on A Chip</i> , 2009, 9, 2818.	3.1	45
15	Synthesis and binding properties of calix[4]biscrown-based fluorescent molecular sensors for caesium or potassium ions. <i>Perkin Transactions II RSC</i> , 2002, , 1429.	1.1	43
16	Novel Fluorophores: Efficient Synthesis and Photophysical Properties. <i>Organic Letters</i> , 2004, 6, 739-742.	2.4	43
17	Organic sulfides photooxidation using sensitizers covalently grafted on silica: towards a more efficient and selective solar photochemistry. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1999, 124, 1-8.	2.0	42
18	Calixarene-Based Fluorescent Sensors for Cesium Cations Containing BODIPY Fluorophore. <i>Journal of Physical Chemistry A</i> , 2015, 119, 6065-6073.	1.1	37

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19	Photophysics of cyclic multichromophoric systems based on $\beta$ -cyclodextrin and calix[4]arene with appended pyridin-2-yl-1,2,3-triazole groups. <i>Photochemical and Photobiological Sciences</i> , 2008, 7, 1323-1331.	1.6	36
20	Chemically derived optical sensors for the detection of cesium ions. <i>Coordination Chemistry Reviews</i> , 2016, 310, 1-15.	9.5	36
21	Sensitized Emission of Luminescent Lanthanide Complexes Based on a Phosphane Oxide Derivative. <i>Journal of Physical Chemistry A</i> , 2010, 114, 3264-3269.	1.1	34
22	Ion-responsive fluorescent compounds. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2000, 135, 163-169.	2.0	33
23	Aggregation-induced emission enhancement upon $Al^{3+}$ complexation with a tetrasulfonated calix[4]bisazacrown fluorescent molecular sensor. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 4335-4341.	1.5	33
24	Fluorescent molecular probe based optical fiber sensor dedicated to pH measurement of concrete. <i>Sensors and Actuators B: Chemical</i> , 2021, 327, 128906.	4.0	32
25	Reversible Bulk Photorelease of Strontium Ion from a Crown Ether-Linked Merocyanine. <i>ChemPhysChem</i> , 2002, 3, 668.	1.0	31
26	Synthesis of Novel Rod-Shaped and Star-Shaped Fluorescent Phosphane Oxides: Nonlinear Optical Properties and Photophysical Properties. <i>Chemistry - A European Journal</i> , 2006, 12, 9056-9065.	1.7	30
27	Selective fluorimetric detection of cadmium in a microfluidic device. <i>Microchemical Journal</i> , 2013, 106, 167-173.	2.3	30
28	Rhod-5N as a Fluorescent Molecular Sensor of Cadmium(II) Ion. <i>Journal of Fluorescence</i> , 2008, 18, 1077-1082.	1.3	28
29	Label-free optofluidic sensor based on polymeric microresonator for the detection of cadmium ions in tap water. <i>Sensors and Actuators B: Chemical</i> , 2019, 280, 77-85.	4.0	28
30	Photophysics of Calix[4]biscrown-Based Ditopic Receptors of Caesium Containing One or Two Dioxocoumarin Fluorophores. <i>Journal of Fluorescence</i> , 2004, 14, 451-458.	1.3	27
31	Synthesis, Fluorescence, and Two-Photon Absorption of Bidentate Phosphane Oxide Derivatives: Complexation with $Pb^{2+}$ and $Cd^{2+}$ Cations. <i>Chemistry - A European Journal</i> , 2008, 14, 5941-5950.	1.7	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. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 758.	1.3	25
33	Water-soluble aluminium fluorescent sensor based on aggregation-induced emission enhancement. <i>New Journal of Chemistry</i> , 2019, 43, 15302-15310.	1.4	25
34	Porphyryns as probe molecules in the detection of gaseous pollutants: detection of benzene using cationic porphyryns in polymer films. <i>Sensors and Actuators B: Chemical</i> , 1999, 54, 243-251.	4.0	24
35	Characterization of alumina surfaces by fluorescence spectroscopy. Part 1. Grafting a pyrene derivative on $\gamma$ - and $\alpha$ -alumina supports. <i>New Journal of Chemistry</i> , 2002, 26, 411-415.	1.4	24
36	A novel microfluidic flow-injection analysis device with fluorescence detection for cation sensing. Application to potassium. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 2627-2632.	1.9	24

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37	A Highly Selective Potassium Sensor for the Detection of Potassium in Living Tissues. <i>Chemistry - A European Journal</i> , 2016, 22, 14902-14911.	1.7	23
38	Femtosecond to Subnanosecond Multistep Calcium Photoejection from a Crown Ether-Linked Merocyanine. <i>ChemPhysChem</i> , 2009, 10, 276-281.	1.0	21
39	A selective lead sensor based on a fluorescent molecular probe grafted on a PDMS microfluidic chip. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012, 234, 115-122.	2.0	21
40	New sensitive and selective calixarene-based fluorescent sensors for the detection of Cs <sup>+</sup> in an organoaqueous medium. <i>New Journal of Chemistry</i> , 2017, 41, 7162-7170.	1.4	21
41	Porphyrins as probe molecules in the detection of gaseous pollutants I: Diffusion of pyridine in polystyrene films containing zinc-tetraphenylporphyrin. <i>Sensors and Actuators B: Chemical</i> , 1996, 37, 67-74.	4.0	20
42	Photodynamics of excitation energy transfer in self-assembled dyads. Evidence for back transfer. <i>Photochemical and Photobiological Sciences</i> , 2005, 4, 280.	1.6	20
43	Highly selective and sensitive Hg <sup>2+</sup> fluorescent sensors based on a phosphane sulfide derivative. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 1665.	1.5	19
44	Photoinduced electron transfer sensitization of anisyl ether cleavage: studies in homogeneous solution and at the surface of one or two solids. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2000, 132, 43-52.	2.0	17
45	Mercury detection in a microfluidic device by using a molecular sensor soluble in organoaqueous solvent. <i>Photochemical and Photobiological Sciences</i> , 2012, 11, 1737-1743.	1.6	16
46	Photoinduced Cation Translocation in a Calix[4]biscrown: Towards a New Type of Light-Driven Molecular Shuttle. <i>ChemPhysChem</i> , 2010, 11, 2416-2423.	1.0	14
47	Synthesis, Photophysical, and Two-Photon Absorption Properties of Elongated Phosphane Oxide and Sulfide Derivatives. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1080-1091.	1.7	14
48	New water-soluble fluorescent sensors based on calix[4]arene biscrown-6 for selective detection of cesium. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 364, 355-362.	2.0	14
49	Optical chemosensors for metal ions in aqueous medium with polyfluorene derivatives: Sensitivity, selectivity and regeneration. <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 521-532.	4.0	14
50	Kinetics, Thermodynamics, and Modeling of Complex Formation between Calix[4]biscrowns and Cesium. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14247-14256.	1.2	13
51	Ultra-sensitive and selective Hg <sup>2+</sup> chemosensors derived from substituted 8-hydroxyquinoline analogues. <i>New Journal of Chemistry</i> , 2014, 38, 1072-1078.	1.4	13
52	Multichromophoric supramolecular systems. Recovery of the distributions of decay times from the fluorescence decays. <i>Dalton Transactions</i> , 2009, , 3988.	1.6	12
53	Norbadione A: Kinetics and Thermodynamics of Cesium Uptake in Aqueous and Alcoholic Media. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12655-12665.	1.2	12
54	Films of polyvinylpyrrolidone containing zinc tetraphenylporphyrin: evidence for aggregation of porphyrins in the presence of pyridine. <i>Thin Solid Films</i> , 1997, 303, 295-301.	0.8	11

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55	Synthesis and photophysical properties of extended $\pi$ -conjugated naphthalimides. Photochemical and Photobiological Sciences, 2017, 16, 539-546.	1.6	11
56	Synthesis and Photophysical Properties of a Star-Shaped Fluorescent Phosphane Sulfide. Letters in Organic Chemistry, 2007, 4, 185-188.	0.2	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.	1.7	9
59	Photophysical properties of poly(triptycene vinylene) derivatives and effect of nitrotoluene exposure. Chemical Physics Letters, 2010, 501, 54-58.	1.2	8
60	Thermodynamics and Kinetics of the Complexation Reaction of Lead by Calix[4]arene-DANS4. ChemPhysChem, 2010, 11, 3355-3362.	1.0	8
61	Determination of lead in water by combining precolumn adsorption and fluorimetric detection in a microfluidic device. Analytical Methods, 2012, 4, 989.	1.3	6
62	Geometrical optimization of organic microlasers for microfluidic chemical sensing. Applied Physics B: Lasers and Optics, 2014, 117, 501-508.	1.1	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.	2.0	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.	2.0	4
65	Calixarene-Based Fluorescent Molecular Sensors. , 2017, , 197-226.		3
66	Can betaine pyridinium derivatives be used to control the photoejection of a cation?. Physical Chemistry Chemical Physics, 2016, 18, 15384-15393.	1.3	2
67	is it possible to easily predict the photoejection of a cation? Example of azacrown-substituted $[(\text{bpy})\text{Re}(\text{CO})_2]^{3+}$	2.0	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