

# Isabelle Leray

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2089895/publications.pdf>

Version: 2024-02-01

69  
papers

4,760  
citations

186265

28  
h-index

98798

67  
g-index

74  
all docs

74  
docs citations

74  
times ranked

4895  
citing authors

#	ARTICLE	IF	CITATIONS
1	Is it possible to simply predict the photoejection of a cation? Example of azacrown-substituted [(bpy)Re(CO)] <sup>+</sup> Sensors and Actuators B: Chemical, 2021, 327, 128906.	3.9	2
2	Fluorescent molecular probe based optical fiber sensor dedicated to pH measurement of concrete. Sensors and Actuators B: Chemical, 2021, 327, 128906.	7.8	32
3	Water-soluble aluminium fluorescent sensor based on aggregation-induced emission enhancement. New Journal of Chemistry, 2019, 43, 15302-15310.	2.8	25
4	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
5	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
6	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
7	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
8	Synthesis and photophysical properties of extended $\pi$ -conjugated naphthalimides. Photochemical and Photobiological Sciences, 2017, 16, 539-546.	2.9	11
9	New sensitive and selective calixarene-based fluorescent sensors for the detection of Cs <sup>+</sup> in an organoaqueous medium. New Journal of Chemistry, 2017, 41, 7162-7170.	2.8	21
10	Selective Fluorimetric Detection of Primary Alkylamines by a Calix[6]arene Funnel Complex. Chemistry - A European Journal, 2017, 23, 8669-8677.	3.3	9
11	Calixarene-Based Fluorescent Molecular Sensors. , 2017, , 197-226.		3
12	Can betaine pyridinium derivatives be used to control the photoejection of cation?. Physical Chemistry Chemical Physics, 2016, 18, 15384-15393.	2.8	2
13	A Highly Selective Potassium Sensor for the Detection of Potassium in Living Tissues. Chemistry - A European Journal, 2016, 22, 14902-14911.	3.3	23
14	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
15	Chemically derived optical sensors for the detection of cesium ions. Coordination Chemistry Reviews, 2016, 310, 1-15.	18.8	36
16	Calixarene-Based Fluorescent Sensors for Cesium Cations Containing BODIPY Fluorophore. Journal of Physical Chemistry A, 2015, 119, 6065-6073.	2.5	37
17	Aggregation-induced emission enhancement upon Al <sup>3+</sup> complexation with a tetrasulfonated calix[4]bisazacrown fluorescent molecular sensor. Organic and Biomolecular Chemistry, 2014, 12, 4335-4341.	2.8	33
18	Ultra-sensitive and selective Hg <sup>2+</sup> chemosensors derived from substituted 8-hydroxyquinoline analogues. New Journal of Chemistry, 2014, 38, 1072-1078.	2.8	13

#	ARTICLE	IF	CITATIONS
19	Geometrical optimization of organic microlasers for microfluidic chemical sensing. <i>Applied Physics B: Lasers and Optics</i> , 2014, 117, 501-508.	2.2	6
20	Selective fluorimetric detection of cadmium in a microfluidic device. <i>Microchemical Journal</i> , 2013, 106, 167-173.	4.5	30
21	Determination of lead in water by combining precolumn adsorption and fluorimetric detection in a microfluidic device. <i>Analytical Methods</i> , 2012, 4, 989.	2.7	6
22	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.	2.9	16
23	Selective detection of heavy metal ions by calixarene-based fluorescent molecular sensors. , 2012, , .		0
24	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.	3.9	21
25	Fluorescent Phosphane Selenide As Efficient Mercury Chemodosimeter. <i>Organic Letters</i> , 2011, 13, 1182-1185.	4.6	81
26	Synthesis, Photophysical, and Two-Photon Absorption Properties of Elongated Phosphane Oxide and Sulfide Derivatives. <i>Chemistry - an Asian Journal</i> , 2011, 6, 1080-1091.	3.3	14
27	Photophysical properties of poly(triptycene vinylene) derivatives and effect of nitrotoluene exposure. <i>Chemical Physics Letters</i> , 2010, 501, 54-58.	2.6	8
28	Photoinduced Cation Translocation in a Calix[4]biscrown: Towards a New Type of Light-Driven Molecular Shuttle. <i>ChemPhysChem</i> , 2010, 11, 2416-2423.	2.1	14
29	Thermodynamics and Kinetics of the Complexation Reaction of Lead by Calix[4]DANS. <i>ChemPhysChem</i> , 2010, 11, 3355-3362.	2.1	8
30	Sensitized Emission of Luminescent Lanthanide Complexes Based on a Phosphane Oxide Derivative. <i>Journal of Physical Chemistry A</i> , 2010, 114, 3264-3269.	2.5	34
31	Norbadiene A: Kinetics and Thermodynamics of Cesium Uptake in Aqueous and Alcoholic Media. <i>Journal of Physical Chemistry B</i> , 2010, 114, 12655-12665.	2.6	12
32	Femtosecond to Subnanosecond Multistep Calcium Photoejection from a Crown Ether-Linked Merocyanine. <i>ChemPhysChem</i> , 2009, 10, 276-281.	2.1	21
33	Calixarene-Based Fluorescent Molecular Sensors for Toxic Metals. <i>European Journal of Inorganic Chemistry</i> , 2009, 2009, 3525-3535.	2.0	166
34	Kinetics, Thermodynamics, and Modeling of Complex Formation between Calix[4]biscrowns and Cesium. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14247-14256.	2.6	13
35	Fluorimetric lead detection in a microfluidic device. <i>Lab on A Chip</i> , 2009, 9, 2818.	6.0	45
36	Multichromophoric supramolecular systems. Recovery of the distributions of decay times from the fluorescence decays. <i>Dalton Transactions</i> , 2009, , 3988.	3.3	12

#	ARTICLE	IF	CITATIONS
37	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.	2.8	19
38	Rhod-5N as a Fluorescent Molecular Sensor of Cadmium(II) Ion. <i>Journal of Fluorescence</i> , 2008, 18, 1077-1082.	2.5	28
39	Synthesis, Fluorescence, and Two-Photon Absorption of Bidentate Phosphane Oxide Derivatives: Complexation with Pb <sup>2+</sup> and Cd <sup>2+</sup> Cations. <i>Chemistry - A European Journal</i> , 2008, 14, 5941-5950.	3.3	27
40	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.	2.9	36
41	Synthesis and Photophysical Properties of a Star-Shaped Fluorescent Phosphane Sulfide. <i>Letters in Organic Chemistry</i> , 2007, 4, 185-188.	0.5	10
42	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.	4.6	97
43	Ion-responsive supramolecular fluorescent systems based on multichromophoric calixarenes: A review. <i>Inorganica Chimica Acta</i> , 2007, 360, 765-774.	2.4	85
44	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.	3.7	24
45	Detection of nitro-aromatic compounds by optical gas sensors based on sensitive or photoluminescent polymers. , 2006, 6189, 204.		1
46	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.	4.1	76
47	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.	3.3	30
48	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.	2.8	79
49	Photodynamics of excitation energy transfer in self-assembled dyads. Evidence for back transfer. <i>Photochemical and Photobiological Sciences</i> , 2005, 4, 280.	2.9	20
50	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
51	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.	2.5	27
52	Lead and Mercury Sensing by Calixarene-Based Fluoroionophores Bearing Two or Four Dansyl Fluorophores. <i>Chemistry - A European Journal</i> , 2004, 10, 4480-4490.	3.3	241
53	Photophysics of calixarenes bearing two or four dansyl fluorophores: charge, proton and energy transfers. <i>Photochemical and Photobiological Sciences</i> , 2004, 3, 374-380.	2.9	52
54	Novel Fluorophores: Efficient Synthesis and Photophysical Properties. <i>Organic Letters</i> , 2004, 6, 739-742.	4.6	43

#	ARTICLE	IF	CITATIONS
55	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.	4.1	138
56	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.	2.8	25
57	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
58	Characterization of alumina surfaces by fluorescence spectroscopy. Part 1. Grafting a pyrene derivative on $\gamma$ - and $\delta$ -alumina supports. <i>New Journal of Chemistry</i> , 2002, 26, 411-415.	2.8	24
59	Reversible Bulk Photorelease of Strontium Ion from a Crown Ether-Linked Merocyanine. <i>ChemPhysChem</i> , 2002, 3, 668.	2.1	31
60	PCT (Photoinduced Charge Transfer) Fluorescent Molecular Sensors for Cation Recognition. <i>Springer Series on Fluorescence</i> , 2001, , 187-207.	0.8	9
61	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.	3.3	112
62	Design principles of fluorescent molecular sensors for cation recognition. <i>Coordination Chemistry Reviews</i> , 2000, 205, 3-40.	18.8	2,230
63	Ion-responsive fluorescent compounds. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2000, 135, 163-169.	3.9	33
64	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.	3.9	17
65	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.	7.8	24
66	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.	3.9	42
67	A new calix[4]arene-based fluorescent sensor for sodium ion. <i>Chemical Communications</i> , 1999, , 795-796.	4.1	83
68	Films of polyvinylpyrrolidone containing zinc tetraphenylporphyrin: evidence for aggregation of porphyryns in the presence of pyridine. <i>Thin Solid Films</i> , 1997, 303, 295-301.	1.8	11
69	Porphyryns 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.	7.8	20