

# Catherine Branger

## List of Publications by Year in descending order

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53  
papers

1,403  
citations

331259

21  
h-index

344852

36  
g-index

54  
all docs

54  
docs citations

54  
times ranked

1603  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent advances on ion-imprinted polymers. <i>Reactive and Functional Polymers</i> , 2013, 73, 859-875.	2.0	275
2	Boron derivatives containing a bithiophene bridge as new materials for non-linear optics. <i>Journal of Materials Chemistry</i> , 1996, 6, 555.	6.7	105
3	Detection of Bisphenol A in aqueous medium by screen printed carbon electrodes incorporating electrochemical molecularly imprinted polymers. <i>Biosensors and Bioelectronics</i> , 2018, 112, 156-161.	5.3	74
4	Polyurethanes containing boron chromophores as sidechains for nonlinear optics. <i>Chemical Physics Letters</i> , 1997, 272, 265-270.	1.2	57
5	A versatile electrochemical sensing receptor based on a molecularly imprinted polymer. <i>Chemical Communications</i> , 2014, 50, 7488.	2.2	47
6	Ion-responsive fluorescent compounds V. Photophysical and complexing properties of coumarin 343 linked to monoaza-15-crown-5. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1998, 116, 127-133.	2.0	44
7	3D-printed lab-on-valve for fluorescent determination of cadmium and lead in water. <i>Talanta</i> , 2018, 183, 201-208.	2.9	44
8	3D-printed flow system for determination of lead in natural waters. <i>Talanta</i> , 2017, 168, 298-302.	2.9	42
9	First hyperpolarizability of organotin compounds withTd symmetry. <i>Advanced Materials</i> , 1994, 6, 851-853.	11.1	40
10	Synthesis and characterization of a polystyrenic resin functionalized by catechol: Application to retention of metal ions. <i>Reactive and Functional Polymers</i> , 2008, 68, 1362-1370.	2.0	34
11	Inverse Suspension Polymerization as a New Tool for the Synthesis of Ion-Imprinted Polymers. <i>Macromolecular Rapid Communications</i> , 2012, 33, 928-932.	2.0	32
12	Hyperpolarizability of tetraorganotin compounds determined by the hyper-Rayleigh scattering technique. <i>Chemical Physics Letters</i> , 1994, 229, 101-104.	1.2	31
13	Salicylic acid and derivatives anchored on poly(styrene-co-divinylbenzene) resin and membrane via a diazo bridge: Synthesis, characterisation and application to metal extraction. <i>Reactive and Functional Polymers</i> , 2008, 68, 775-786.	2.0	31
14	Effect of porogen solvent on the properties of nickel ion imprinted polymer materials prepared by inverse suspension polymerization. <i>European Polymer Journal</i> , 2017, 87, 124-135.	2.6	30
15	Benefit of ion imprinting technique in solid-phase extraction of heavy metals, special focus on the last decade. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106548.	3.3	30
16	On-line solid-phase extraction and multisyringe flow injection analysis of Al(III) and Fe(III) in drinking water. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 389, 1595-1602.	1.9	28
17	Synthesis of a poly(vinylcatechol-co-divinylbenzene) resin and accessibility to catechol units. <i>Polymer</i> , 2010, 51, 2472-2478.	1.8	25
18	Fluorimetric determination of aluminium in water by sequential injection through column extraction. <i>Analytical and Bioanalytical Chemistry</i> , 2004, 378, 1652-1658.	1.9	24

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19	Electrochemical sensors modified with ion-imprinted polymers for metal ion detection. <i>TrAC - Trends in Analytical Chemistry</i> , 2022, 148, 116536.	5.8	24
20	Modification of poly(styrene-co-divinylbenzene) resin by grafting on an aluminium selective ligand. <i>Polymer International</i> , 2002, 51, 1050-1057.	1.6	22
21	Synthesis and applications of XAD-4-DAN chelate resin for the separation and determination of Se(IV). <i>Reactive and Functional Polymers</i> , 2009, 69, 877-883.	2.0	22
22	Assessment and modelling of Ni(II) retention by an ion-imprinted polymer: Application in natural samples. <i>Journal of Colloid and Interface Science</i> , 2015, 448, 473-481.	5.0	22
23	Synthesis, characterisation and aqueous behaviour of a one-ended perfluorocarbon-modified poly(ethylene glycol). <i>Polymer</i> , 2002, 43, 5329-5334.	1.8	21
24	Effect of template ion-ligand complex stoichiometry on selectivity of ion-imprinted polymers. <i>Talanta</i> , 2015, 134, 538-545.	2.9	21
25	Electrochemical molecularly imprinted polymers as material for pollutant detection. <i>Materials Today Communications</i> , 2018, 17, 458-465.	0.9	21
26	Catechol immobilized on crosslinked polystyrene resins by grafting or copolymerization: Incidence on metal ions adsorption. <i>Reactive and Functional Polymers</i> , 2012, 72, 98-106.	2.0	20
27	Modified 3D-printed device for mercury determination in waters. <i>Analytica Chimica Acta</i> , 2019, 1082, 78-85.	2.6	17
28	A turn-on fluorescent ion-imprinted polymer for selective and reliable optosensing of lead in real water samples. <i>Sensors and Actuators B: Chemical</i> , 2020, 319, 128252.	4.0	16
29	An insight of enhanced natural material (calcined diatomite) efficiency in nickel and silver retention: Application to natural effluents. <i>Environmental Technology and Innovation</i> , 2020, 18, 100768.	3.0	15
30	Numerical and Experimental Investigation of Surface Plasmon Resonance Excitation Using Whispering Gallery Modes in Bent Metal-Clad Single-Mode Optical Fiber. <i>Journal of Lightwave Technology</i> , 2017, 35, 5425-5431.	2.7	13
31	A new microemulsion approach for producing molecularly imprinted polymers with selective recognition cavities for gallic acid. <i>Polymer International</i> , 2013, 62, 949-956.	1.6	12
32	Synthesis and characterization of PS-block-PEO associative water-soluble polymers. <i>European Polymer Journal</i> , 2003, 39, 333-339.	2.6	11
33	Tailor-made polymer beads for gallic acid recognition and separation. <i>Journal of Polymer Research</i> , 2012, 19, 1.	1.2	11
34	Nickel retention by an ion-imprinted polymer: Wide-range selectivity study and modelling of the binding structures. <i>Chemical Engineering Journal</i> , 2016, 304, 20-28.	6.6	11
35	Fabrication and characterisation of novel nanofiltration polymeric membrane. <i>Materials Today Communications</i> , 2019, 20, 100580.	0.9	11
36	An innovative approach to prepare hypericin molecularly imprinted pearls using a "phyto-template". <i>Talanta</i> , 2016, 148, 37-45.	2.9	10

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37	Application of unusual on/off electrochemical properties of a molecularly imprinted polymer based on an EDTA-thiophene precursor for the detection of ephedrine. <i>Electrochemistry Communications</i> , 2018, 94, 45-48.	2.3	10
38	Symmetry of the all-optical orientation dynamics of an octupolar azo-dye salt. <i>Synthetic Metals</i> , 2000, 115, 127-131.	2.1	9
39	Comparative Study on Metal Extraction Properties of Empore SDB-XC and Amberlite XAD-4 Grafted by Salicylic Acid and its Derivatives via Different Bridges. <i>Separation Science and Technology</i> , 2006, 41, 1619-1633.	1.3	9
40	Modification of poly(styrene-co-divinylbenzene) membrane by grafting of salicylic acid via a ketone bridge. <i>European Polymer Journal</i> , 2007, 43, 416-424.	2.6	9
41	One-step preparation of molecularly imprinted hollow beads for pseudohypericin separation from <i>Hypericum perforatum</i> L. extracts. <i>European Polymer Journal</i> , 2018, 100, 48-56.	2.6	9
42	Complexation of Nickel with 2-(Aminomethyl)pyridine at High Zinc Concentrations or in a Nonaqueous Solvent Mixture. <i>Journal of Chemical &amp; Engineering Data</i> , 2014, 59, 2207-2214.	1.0	8
43	Ion exchange of lanthanides with conventional and ion-imprinted resins containing sulfonic or iminodiacetic acid groups. <i>Separation Science and Technology</i> , 2021, 56, 203-216.	1.3	8
44	Enhancing clay adsorption properties: A comparison between chemical and combined chemical/thermal treatments. <i>Groundwater for Sustainable Development</i> , 2021, 12, 100544.	2.3	8
45	Associative properties of perfluorooctyl end-functionalized polystyrene-poly(ethylene oxide) diblock copolymers. <i>Polymer International</i> , 2005, 54, 90-95.	1.6	7
46	Influence of the synthesis parameters on the efficiency of fluorescent ion-imprinted polymers for lead detection. <i>Reactive and Functional Polymers</i> , 2022, 170, 105134.	2.0	7
47	In situ complexation versus complex isolation in synthesis of ion imprinted polymers. <i>Reactive and Functional Polymers</i> , 2018, 122, 1-8.	2.0	6
48	Impact of thermal treatment on bentonite retention ability toward nickel and silver retention. <i>Separation Science and Technology</i> , 2021, 56, 2521-2531.	1.3	6
49	Evaluation of Molecularly Imprinted Thin Films for Ephedrine Recognition. <i>Materiale Plastice</i> , 2019, 56, 865-874.	0.4	5
50	Electrochemical molecularly imprinted polymers in microelectrode devices. <i>MRS Communications</i> , 2020, 10, 324-331.	0.8	4
51	Identifying the Stoichiometry of Metal/Ligand Complex by Coupling Spectroscopy and Modelling: a Comprehensive Study on Two Fluorescent Molecules Specific to Lead. <i>Journal of Fluorescence</i> , 2019, 29, 933-943.	1.3	3
52	Molecularly Imprinted Polymer Pearls Obtained by Phase Inversion for the Selective Recognition of Hypericin. <i>Materiale Plastice</i> , 2019, 56, 315-320.	0.4	2
53	Role of Ligand Acidity in Chelating Adsorption and Desorption of Metal Salts. <i>Industrial &amp; Engineering Chemistry Research</i> , 0, , 120917110733001.	1.8	0