Bernadette Tse Sum Bui

List of Publications by Year in Descending Order

66 papers	3,399 citations	37 h-index	57 g-index
73 ext. papers	3,885 ext. citations	8.6 avg, IF	5.5 L-index

#	Paper	IF	Citations
66	Evolution of Molecularly Imprinted Enzyme Inhibitors: From Simple Activity Inhibition to Pathological Cell Regulation. *Angewandte Chemie - International Edition*, **2021**, 60, 24526-24533	16.4	5
65	Molecularly Imprinted Polymer Nanogels for Protein Recognition: Direct Proof of Specific Binding Sites by Solution STD and WaterLOGSY NMR Spectroscopies. *Angewandte Chemie - International Edition*, **2021**, 60, 20849-20857	16.4	7
64	Molecularly Imprinted Polymer Nanogels for Protein Recognition: Direct Proof of Specific Binding Sites by Solution STD and WaterLOGSY NMR Spectroscopies. *Angewandte Chemie*, **2021**, 133, 21017-21025	3.6	0
63	Chemical Antibody Mimics Inhibit Cadherin-Mediated Cell-Cell Adhesion: A Promising Strategy for Cancer Therapy. *Angewandte Chemie*, **2020**, 132, 2838-2844	3.6	13
62	Chemical Antibody Mimics Inhibit Cadherin-Mediated Cell-Cell Adhesion: A Promising Strategy for Cancer Therapy. *Angewandte Chemie - International Edition*, **2020**, 59, 2816-2822	16.4	45
61	Molecularly Imprinted Polymers: Antibody Mimics for Bioimaging and Therapy. *Chemical Reviews*, **2020**, 120, 9554-9582	68.1	116
60	Solid-phase synthesis of molecularly imprinted polymer nanolabels: Affinity tools for cellular bioimaging of glycans. *Scientific Reports*, **2019**, 9, 3923	4.9	39
59	Cytocompatibility of Molecularly Imprinted Polymers for Deodorants: Evaluation on Human Keratinocytes and Axillary-Hosted Bacteria.. *ACS Applied Bio Materials*, **2019**, 2, 3439-3447	4.1	7
58	Molecularly Imprinted Polymer Nanoparticles as Potential Synthetic Antibodies for Immunoprotection against HIV. *ACS Applied Materials & Interfaces*, **2019**, 11, 9824-9831	9.5	42
57	Competitive fluorescent pseudo-immunoassay exploiting molecularly imprinted polymers for the detection of biogenic amines in fish matrix. *Talanta*, **2018**, 181, 190-196	6.2	41
56	Tracking Hyaluronan: Molecularly Imprinted Polymer Coated Carbon Dots for Cancer Cell Targeting and Imaging. *ACS Applied Materials & Interfaces*, **2018**, 10, 3305-3313	9.5	111
55	Direct and sensitive determination of trypsin in human urine using a water-soluble signaling fluorescent molecularly imprinted polymer nanoprobe. *Sensors and Actuators B: Chemical*, **2018**, 258, 10-17	8.5	24
54	Cell and Tissue Imaging with Molecularly Imprinted Polymers. *Methods in Molecular Biology*, **2017**, 1575, 399-415	1.4	10
53	Guide to the Preparation of Molecularly Imprinted Polymer Nanoparticles for Protein Recognition by Solid-Phase Synthesis. *Methods in Enzymology*, **2017**, 590, 115-141	1.7	23
52	Dual-Oriented Solid-Phase Molecular Imprinting: Toward Selective Artificial Receptors for Recognition of Nucleotides in Water. *Macromolecules*, **2017**, 50, 7484-7490	5.5	17
51	Core-Shell Molecularly Imprinted Polymer Nanoparticles as Synthetic Antibodies in a Sandwich Fluoroimmunoassay for Trypsin Determination in Human Serum. *ACS Applied Materials & Interfaces*, **2017**, 9, 24476-24483	9.5	49
50	Fluorescent molecularly imprinted polymers as plastic antibodies for selective labeling and imaging of hyaluronan and sialic acid on fixed and living cells. *Biosensors and Bioelectronics*, **2017**, 88, 85-93	11.8	60

49	Rapid Prototyping of Chemical Microsensors Based on Molecularly Imprinted Polymers Synthesized by Two-Photon Stereolithography. *Advanced Materials*, **2016**, 28, 5931-7	24	37
48	Molecularly imprinted polymer nanomaterials and nanocomposites by controlled/living radical polymerization. *Progress in Polymer Science*, **2016**, 62, 1-21	29.6	108
47	Light-Triggered Switchable Graphene–Polymer Hybrid Bioelectronics. *Advanced Materials Interfaces*, **2016**, 3, 1500353	4.6	12
46	Plastic Antibodies for Cosmetics: Molecularly Imprinted Polymers Scavenge Precursors of Malodors. *Angewandte Chemie - International Edition*, **2016**, 55, 6252-6	16.4	43
45	Toward a Universal Method for Preparing Molecularly Imprinted Polymer Nanoparticles with Antibody-like Affinity for Proteins. *Biomacromolecules*, **2016**, 17, 345-53	6.9	71
44	Molecularly Imprinted Polymer Coated Quantum Dots for Multiplexed Cell Targeting and Imaging. *Angewandte Chemie - International Edition*, **2016**, 55, 8244-8	16.4	110
43	Programmable bioelectronics in a stimuli-encoded 3D graphene interface. *Nanoscale*, **2016**, 8, 9976-81	7.7	18
42	Solid-phase extraction of betanin and isobetanin from beetroot extracts using a dipicolinic acid molecularly imprinted polymer. *Journal of Chromatography A*, **2016**, 1465, 47-54	4.5	25
41	Molecularly imprinted polymer nanomaterials and nanocomposites: atom-transfer radical polymerization with acidic monomers. *Angewandte Chemie - International Edition*, **2015**, 54, 5192-5	16.4	80
40	Initiator-free synthesis of molecularly imprinted polymers by polymerization of self-initiated monomers. *Polymer*, **2015**, 66, 43-51	3.9	28
39	A molecularly imprinted polymer-based evanescent wave fiber optic sensor for the detection of basic red 9 dye. *Sensors and Actuators B: Chemical*, **2015**, 218, 222-228	8.5	35
38	Nanoparticles in Biomedical Applications. *Bioanalytical Reviews*, **2015**, 177-210	1	7
37	A disposable evanescent wave fiber optic sensor coated with a molecularly imprinted polymer as a selective fluorescence probe. *Biosensors and Bioelectronics*, **2015**, 64, 359-66	11.8	74
36	Water-compatible silica sol-gel molecularly imprinted polymer as a potential delivery system for the controlled release of salicylic acid. *Journal of Molecular Recognition*, **2014**, 27, 559-65	2.6	34
35	Versatile synthetic strategy for coating upconverting nanoparticles with polymer shells through localized photopolymerization by using the particles as internal light sources. *Angewandte Chemie - International Edition*, **2014**, 53, 8919-23	16.4	103
34	One-pot synthesis of iniferter-bound polystyrene core nanoparticles for the controlled grafting of multilayer shells. *Nanoscale*, **2014**, 6, 2872-8	7.7	30
33	A versatile fiber-optic fluorescence sensor based on molecularly imprinted microstructures polymerized in situ. *Angewandte Chemie - International Edition*, **2013**, 52, 8317-21	16.4	69
32	Solid-phase synthesis of molecularly imprinted nanoparticles for protein recognition. *Chemical Communications*, **2013**, 49, 6746-8	5.8	137

31	Protein-size molecularly imprinted polymer nanogels as synthetic antibodies, by localized polymerization with multi-initiators. *Advanced Materials*, **2013**, 25, 1048-51	24	87
30	Direct fluorimetric sensing of UV-excited analytes in biological and environmental samples using molecularly imprinted polymer nanoparticles and fluorescence polarization. *Biosensors and Bioelectronics*, **2012**, 36, 22-8	11.8	60
29	Molecularly imprinted polymers. *Topics in Current Chemistry*, **2012**, 325, 1-28		91
28	Immobilization of molecularly imprinted polymer nanoparticles in electrospun poly(vinyl alcohol) nanofibers. *Langmuir*, **2011**, 27, 1547-50	4	40
27	Fluorescence optical spectrally resolved sensor based on molecularly imprinted polymers and microfluidics. *Engineering in Life Sciences*, **2011**, 11, 559-565	3.4	11
26	Preparation and evaluation of a molecularly imprinted polymer for the selective recognition of testosterone--application to molecularly imprinted sorbent assays. *Journal of Molecular Recognition* , **2011**, 24, 1123-9	2.6	29
25	Toward the use of a molecularly imprinted polymer in doping analysis: selective preconcentration and analysis of testosterone and epitestosterone in human urine. *Analytical Chemistry*, **2010**, 82, 4420-7	7.8	54
24	Molecularly imprinted polymers: synthetic receptors in bioanalysis. *Analytical and Bioanalytical Chemistry*, **2010**, 398, 2481-92	4.4	168
23	Comment on "Isolation and detection of steroids from human urine by molecularly imprinted solid-phase extraction and liquid chromatography" by Gadzala-Kopciuch et al., J. Chromatogr. B 877 (2009), 1177-1184. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2009**, 877, 4180-1	3.2	3
22	Selective extraction of triazine herbicides from food samples based on a combination of a liquid membrane and molecularly imprinted polymers. *Journal of Chromatography A*, **2009**, 1216, 6796-801	4.5	41
21	Iron-sulfur cluster dynamics in biotin synthase: a new [2Fe-2S](1+) cluster. *Biochemical and Biophysical Research Communications*, **2009**, 381, 487-90	3.4	6
20	Molecular recognition of endocrine disruptors by synthetic and natural 17beta-estradiol receptors: a comparative study. *Analytical and Bioanalytical Chemistry*, **2008**, 390, 2081-8	4.4	20
19	Iron-sulfur proteins as initiators of radical chemistry. *Natural Product Reports*, **2007**, 24, 1027-40	15.1	29
18	Isoprenoid biosynthesis in plant chloroplasts via the MEP pathway: direct thylakoid/ferredoxin-dependent photoreduction of GcpE/IspG. *FEBS Letters*, **2006**, 580, 1547-52	3.8	105
17	Biotin synthase mechanism: mutagenesis of the YNHNLD conserved motif. *Biochemistry*, **2006**, 45, 12274-81	3.2	15
16	Escherichia coli biotin synthase produces selenobiotin. Further evidence of the involvement of the [2Fe-2S]2+ cluster in the sulfur insertion step. *Biochemistry*, **2006**, 45, 3824-34	3.2	38
15	Biotin synthase mechanism: an overview. *Biochemical Society Transactions*, **2005**, 33, 820-3	5.1	37
14	Isoprenoid biosynthesis in chloroplasts via the methylerythritol phosphate pathway: the (E)-4-hydroxy-3-methylbut-2-enyl diphosphate synthase (GcpE) from Arabidopsis thaliana is a [4Fe-4S] protein. *Journal of Biological Inorganic Chemistry*, **2005**, 10, 131-7	3.7	68

13	Further investigation on the turnover of Escherichia coli biotin synthase with dethiobiotin and 9-mercaptodethiobiotin as substrates. *Biochemistry*, **2004**, 43, 16432-41	3.2	39
12	Fate of the (2Fe-2S)(2+) cluster of Escherichia coli biotin synthase during reaction: a Mössbauer characterization. *Biochemistry*, **2003**, 42, 8791-8	3.2	59
11	Isoprenoid biosynthesis via the methylerythritol phosphate pathway: the (E)-4-hydroxy-3-methylbut-2-enyl diphosphate reductase (LytB/IspH) from Escherichia coli is a [4Fe-4S] protein. *FEBS Letters*, **2003**, 541, 115-20	3.8	139
10	Isoprenoid biosynthesis through the methylerythritol phosphate pathway: the (E)-4-hydroxy-3-methylbut-2-enyl diphosphate synthase (GcpE) is a [4Fe-4S] protein. *Angewandte Chemie - International Edition*, **2002**, 41, 4337-9	16.4	95
9	Iron-sulfur clusters of biotin synthase in vivo: a Mössbauer study. *Biochemistry*, **2002**, 41, 15000-6	3.2	32
8	Biosynthesis of biotin and lipoic acid. *Vitamins and Hormones*, **2001**, 61, 51-101	2.5	89
7	Enzyme-mediated sulfide production for the reconstitution of [2Fe-2S] clusters into apo-biotin synthase of Escherichia coli. Sulfide transfer from cysteine to biotin. *FEBS Journal*, **2000**, 267, 2688-94		46
6	Biotin Synthase Mechanism: Evidence for Hydrogen Transfer from the Substrate into Deoxyadenosine. *Journal of the American Chemical Society*, **1999**, 121, 3571-3578	16.4	79
5	Mössbauer studies of Escherichia coli biotin synthase: evidence for reversible interconversion between [2Fe-2S](2+) and [4Fe-4S](2+) clusters. *FEBS Letters*, **1999**, 459, 411-4	3.8	51
4	Biotin synthase mechanism: on the origin of sulphur. *FEBS Letters*, **1998**, 440, 226-30	3.8	101
3	Biotin synthase, a new member of the family of enzymes which uses S-adenosylmethionine as a source of deoxyadenosyl radical. *Biochemical and Biophysical Research Communications*, **1997**, 236, 402-6	3.4	105
2	Enzymatic conversion of dethiobiotin to biotin in cell-free extracts of a Bacillus sphaericus bioB transformant. *Bioscience, Biotechnology and Biochemistry*, **1994**, 58, 1738-41	2.1	22
1	Evolution of Molecularly Imprinted Enzyme Inhibitors: From Simple Activity Inhibition to Pathological Cell Regulation. *Angewandte Chemie*,	3.6	1