

Bernadette Tse Sum Bui

List of Publications by Citations

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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	Molecularly imprinted polymers: synthetic receptors in bioanalysis. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 398, 2481-92	4.4	168
65	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. <i>FEBS Letters</i> , 2003 , 541, 115-20	3.8	139
64	Solid-phase synthesis of molecularly imprinted nanoparticles for protein recognition. <i>Chemical Communications</i> , 2013 , 49, 6746-8	5.8	137
63	Molecularly Imprinted Polymers: Antibody Mimics for Bioimaging and Therapy. <i>Chemical Reviews</i> , 2020 , 120, 9554-9582	68.1	116
62	Tracking Hyaluronan: Molecularly Imprinted Polymer Coated Carbon Dots for Cancer Cell Targeting and Imaging. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3305-3313	9.5	111
61	Molecularly Imprinted Polymer Coated Quantum Dots for Multiplexed Cell Targeting and Imaging. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8244-8	16.4	110
60	Molecularly imprinted polymer nanomaterials and nanocomposites by controlled/living radical polymerization. <i>Progress in Polymer Science</i> , 2016 , 62, 1-21	29.6	108
59	Biotin synthase, a new member of the family of enzymes which uses S-adenosylmethionine as a source of deoxyadenosyl radical. <i>Biochemical and Biophysical Research Communications</i> , 1997 , 236, 402-6	3.4	105
58	Isoprenoid biosynthesis in plant chloroplasts via the MEP pathway: direct thylakoid/ferredoxin-dependent photoreduction of GcpE/IspG. <i>FEBS Letters</i> , 2006 , 580, 1547-52	3.8	105
57	Versatile synthetic strategy for coating upconverting nanoparticles with polymer shells through localized photopolymerization by using the particles as internal light sources. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 8919-23	16.4	103
56	Biotin synthase mechanism: on the origin of sulphur. <i>FEBS Letters</i> , 1998 , 440, 226-30	3.8	101
55	Isoprenoid biosynthesis through the methylerythritol phosphate pathway: the (E)-4-hydroxy-3-methylbut-2-enyl diphosphate synthase (GcpE) is a [4Fe-4S] protein. <i>Angewandte Chemie - International Edition</i> , 2002 , 41, 4337-9	16.4	95
54	Molecularly imprinted polymers. <i>Topics in Current Chemistry</i> , 2012 , 325, 1-28		91
53	Biosynthesis of biotin and lipoic acid. <i>Vitamins and Hormones</i> , 2001 , 61, 51-101	2.5	89
52	Protein-size molecularly imprinted polymer nanogels as synthetic antibodies, by localized polymerization with multi-initiators. <i>Advanced Materials</i> , 2013 , 25, 1048-51	24	87
51	Molecularly imprinted polymer nanomaterials and nanocomposites: atom-transfer radical polymerization with acidic monomers. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 5192-5	16.4	80
50	Biotin Synthase Mechanism: Evidence for Hydrogen Transfer from the Substrate into Deoxyadenosine. <i>Journal of the American Chemical Society</i> , 1999 , 121, 3571-3578	16.4	79

49	A disposable evanescent wave fiber optic sensor coated with a molecularly imprinted polymer as a selective fluorescence probe. <i>Biosensors and Bioelectronics</i> , 2015 , 64, 359-66	11.8	74
48	Toward a Universal Method for Preparing Molecularly Imprinted Polymer Nanoparticles with Antibody-like Affinity for Proteins. <i>Biomacromolecules</i> , 2016 , 17, 345-53	6.9	71
47	A versatile fiber-optic fluorescence sensor based on molecularly imprinted microstructures polymerized in situ. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8317-21	16.4	69
46	Isoprenoid biosynthesis in chloroplasts via the methylerythritol phosphate pathway: the (E)-4-hydroxy-3-methylbut-2-enyl diphosphate synthase (GcpE) from <i>Arabidopsis thaliana</i> is a [4Fe-4S] protein. <i>Journal of Biological Inorganic Chemistry</i> , 2005 , 10, 131-7	3.7	68
45	Fluorescent molecularly imprinted polymers as plastic antibodies for selective labeling and imaging of hyaluronan and sialic acid on fixed and living cells. <i>Biosensors and Bioelectronics</i> , 2017 , 88, 85-93	11.8	60
44	Direct fluorimetric sensing of UV-excited analytes in biological and environmental samples using molecularly imprinted polymer nanoparticles and fluorescence polarization. <i>Biosensors and Bioelectronics</i> , 2012 , 36, 22-8	11.8	60
43	Fate of the (2Fe-2S)(2+) cluster of <i>Escherichia coli</i> biotin synthase during reaction: a Mössbauer characterization. <i>Biochemistry</i> , 2003 , 42, 8791-8	3.2	59
42	Toward the use of a molecularly imprinted polymer in doping analysis: selective preconcentration and analysis of testosterone and epitestosterone in human urine. <i>Analytical Chemistry</i> , 2010 , 82, 4420-7	7.8	54
41	Mössbauer studies of <i>Escherichia coli</i> biotin synthase: evidence for reversible interconversion between [2Fe-2S](2+) and [4Fe-4S](2+) clusters. <i>FEBS Letters</i> , 1999 , 459, 411-4	3.8	51
40	Core-Shell Molecularly Imprinted Polymer Nanoparticles as Synthetic Antibodies in a Sandwich Fluoroimmunoassay for Trypsin Determination in Human Serum. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24476-24483	9.5	49
39	Enzyme-mediated sulfide production for the reconstitution of [2Fe-2S] clusters into apo-biotin synthase of <i>Escherichia coli</i> . Sulfide transfer from cysteine to biotin. <i>FEBS Journal</i> , 2000 , 267, 2688-94		46
38	Chemical Antibody Mimics Inhibit Cadherin-Mediated Cell-Cell Adhesion: A Promising Strategy for Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2816-2822	16.4	45
37	Plastic Antibodies for Cosmetics: Molecularly Imprinted Polymers Scavenge Precursors of Malodors. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 6252-6	16.4	43
36	Molecularly Imprinted Polymer Nanoparticles as Potential Synthetic Antibodies for Immunoprotection against HIV. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 9824-9831	9.5	42
35	Competitive fluorescent pseudo-immunoassay exploiting molecularly imprinted polymers for the detection of biogenic amines in fish matrix. <i>Talanta</i> , 2018 , 181, 190-196	6.2	41
34	Selective extraction of triazine herbicides from food samples based on a combination of a liquid membrane and molecularly imprinted polymers. <i>Journal of Chromatography A</i> , 2009 , 1216, 6796-801	4.5	41
33	Immobilization of molecularly imprinted polymer nanoparticles in electrospun poly(vinyl alcohol) nanofibers. <i>Langmuir</i> , 2011 , 27, 1547-50	4	40
32	Solid-phase synthesis of molecularly imprinted polymer nanolabels: Affinity tools for cellular bioimaging of glycans. <i>Scientific Reports</i> , 2019 , 9, 3923	4.9	39

31	Further investigation on the turnover of Escherichia coli biotin synthase with dethiobiotin and 9-mercaptodethiobiotin as substrates. <i>Biochemistry</i> , 2004 , 43, 16432-41	3.2	39
30	Escherichia coli biotin synthase produces selenobiotin. Further evidence of the involvement of the [2Fe-2S] ₂₊ cluster in the sulfur insertion step. <i>Biochemistry</i> , 2006 , 45, 3824-34	3.2	38
29	Rapid Prototyping of Chemical Microsensors Based on Molecularly Imprinted Polymers Synthesized by Two-Photon Stereolithography. <i>Advanced Materials</i> , 2016 , 28, 5931-7	24	37
28	Biotin synthase mechanism: an overview. <i>Biochemical Society Transactions</i> , 2005 , 33, 820-3	5.1	37
27	A molecularly imprinted polymer-based evanescent wave fiber optic sensor for the detection of basic red 9 dye. <i>Sensors and Actuators B: Chemical</i> , 2015 , 218, 222-228	8.5	35
26	Water-compatible silica sol-gel molecularly imprinted polymer as a potential delivery system for the controlled release of salicylic acid. <i>Journal of Molecular Recognition</i> , 2014 , 27, 559-65	2.6	34
25	Iron-sulfur clusters of biotin synthase in vivo: a Mössbauer study. <i>Biochemistry</i> , 2002 , 41, 15000-6	3.2	32
24	One-pot synthesis of iniferter-bound polystyrene core nanoparticles for the controlled grafting of multilayer shells. <i>Nanoscale</i> , 2014 , 6, 2872-8	7.7	30
23	Preparation and evaluation of a molecularly imprinted polymer for the selective recognition of testosterone--application to molecularly imprinted sorbent assays. <i>Journal of Molecular Recognition</i> , 2011 , 24, 1123-9	2.6	29
22	Iron-sulfur proteins as initiators of radical chemistry. <i>Natural Product Reports</i> , 2007 , 24, 1027-40	15.1	29
21	Initiator-free synthesis of molecularly imprinted polymers by polymerization of self-initiated monomers. <i>Polymer</i> , 2015 , 66, 43-51	3.9	28
20	Solid-phase extraction of betanin and isobetanin from beetroot extracts using a dipicolinic acid molecularly imprinted polymer. <i>Journal of Chromatography A</i> , 2016 , 1465, 47-54	4.5	25
19	Direct and sensitive determination of trypsin in human urine using a water-soluble signaling fluorescent molecularly imprinted polymer nanoprobe. <i>Sensors and Actuators B: Chemical</i> , 2018 , 258, 10-17	8.5	24
18	Guide to the Preparation of Molecularly Imprinted Polymer Nanoparticles for Protein Recognition by Solid-Phase Synthesis. <i>Methods in Enzymology</i> , 2017 , 590, 115-141	1.7	23
17	Enzymatic conversion of dethiobiotin to biotin in cell-free extracts of a Bacillus sphaericus bioB transformant. <i>Bioscience, Biotechnology and Biochemistry</i> , 1994 , 58, 1738-41	2.1	22
16	Molecular recognition of endocrine disruptors by synthetic and natural 17beta-estradiol receptors: a comparative study. <i>Analytical and Bioanalytical Chemistry</i> , 2008 , 390, 2081-8	4.4	20
15	Programmable bioelectronics in a stimuli-encoded 3D graphene interface. <i>Nanoscale</i> , 2016 , 8, 9976-81	7.7	18
14	Dual-Oriented Solid-Phase Molecular Imprinting: Toward Selective Artificial Receptors for Recognition of Nucleotides in Water. <i>Macromolecules</i> , 2017 , 50, 7484-7490	5.5	17

13	Biotin synthase mechanism: mutagenesis of the YNHNL D conserved motif. <i>Biochemistry</i> , 2006 , 45, 12274-81	5.81	15
12	Chemical Antibody Mimics Inhibit Cadherin-Mediated Cell-Cell Adhesion: A Promising Strategy for Cancer Therapy. <i>Angewandte Chemie</i> , 2020 , 132, 2838-2844	3.6	13
11	Light-Triggered Switchable Graphene-Polymer Hybrid Bioelectronics. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500353	4.6	12
10	Fluorescence optical spectrally resolved sensor based on molecularly imprinted polymers and microfluidics. <i>Engineering in Life Sciences</i> , 2011 , 11, 559-565	3.4	11
9	Cell and Tissue Imaging with Molecularly Imprinted Polymers. <i>Methods in Molecular Biology</i> , 2017 , 1575, 399-415	1.4	10
8	Nanoparticles in Biomedical Applications. <i>Bioanalytical Reviews</i> , 2015 , 177-210	1	7
7	Cytocompatibility of Molecularly Imprinted Polymers for Deodorants: Evaluation on Human Keratinocytes and Axillary-Hosted Bacteria.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 3439-3447	4.1	7
6	Molecularly Imprinted Polymer Nanogels for Protein Recognition: Direct Proof of Specific Binding Sites by Solution STD and WaterLOGSY NMR Spectroscopies. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20849-20857	16.4	7
5	Iron-sulfur cluster dynamics in biotin synthase: a new [2Fe-2S](1+) cluster. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 381, 487-90	3.4	6
4	Evolution of Molecularly Imprinted Enzyme Inhibitors: From Simple Activity Inhibition to Pathological Cell Regulation. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 24526-24533	16.4	5
3	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. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009 , 877, 4180-1	3.2	3
2	Evolution of Molecularly Imprinted Enzyme Inhibitors: From Simple Activity Inhibition to Pathological Cell Regulation. <i>Angewandte Chemie</i> ,	3.6	1
1	Molecularly Imprinted Polymer Nanogels for Protein Recognition: Direct Proof of Specific Binding Sites by Solution STD and WaterLOGSY NMR Spectroscopies. <i>Angewandte Chemie</i> , 2021 , 133, 21017-21025	3.6	0