Jean Michel Brunel

List of Publications by Year in descending order

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126907 128289 4,217 116 33 60 citations g-index h-index papers 136 136 136 4559 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	BINOL:  A Versatile Chiral Reagent. Chemical Reviews, 2005, 105, 857-898.	47.7	888
2	Synthesis and antifungal activity of cholesterol-hydrazone derivatives. European Journal of Medicinal Chemistry, 2004, 39, 1067-1071.	5.5	221
3	Update 1 of: BINOL:  A Versatile Chiral Reagent. Chemical Reviews, 2007, 107, PR1-PR45.	47.7	215
4	Antibiotic Adjuvants: Make Antibiotics Great Again!. Journal of Medicinal Chemistry, 2019, 62, 8665-8681.	6.4	163
5	Phosphane–boranes: synthesis, characterization and synthetic applications. Coordination Chemistry Reviews, 1998, 178-180, 665-698.	18.8	135
6	A Practical Method for the Large-Scale Synthesis of Diastereomerically Pure (2R,5S)-3-Phenyl-2-(8-quinolinoxy)-1,3-diaza-2-phosphabicyclo-[3.3.0]-octane Ligand (QUIPHOS). Synthesis and X-ray Structure of Its Corresponding Chiral π-Allyl Palladium Complex. Journal of Organic Chemistry, 1999, 64, 8940-8942.	3.2	112
7	New insights into the antibacterial mechanism of action of squalamine. Journal of Antimicrobial Chemotherapy, 2010, 65, 1688-1693.	3.0	83
8	Chronic Stress Induces Anxiety via an Amygdalar Intracellular Cascade that Impairs Endocannabinoid Signaling. Neuron, 2015, 85, 1319-1331.	8.1	81
9	A new and efficient method for the resolution of 1,1'-binaphthalene-2,2'-diol. Journal of Organic Chemistry, 1993, 58, 7313-7314.	3.2	73
10	Design of a new class of chiral quinoline–phosphine ligands. Synthesis and application in asymmetric catalysis. Tetrahedron: Asymmetry, 2001, 12, 1345-1352.	1.8	68
11	First Iminodiazaphospholidines with a Stereogenic Phosphorus Center. Application to Asymmetric Copper-Catalyzed Cyclopropanation. Journal of the American Chemical Society, 1999, 121, 5807-5808.	13.7	65
12	Functional properties of Claramine: A novel PTP1B inhibitor and insulin-mimetic compound. Biochemical and Biophysical Research Communications, 2015, 458, 21-27.	2.1	60
13	Squalamine: An Appropriate Strategy against the Emergence of Multidrug Resistant Gram-Negative Bacteria?. PLoS ONE, 2008, 3, e2765.	2.5	56
14	The beta secretase BACE1 regulates the expression of insulin receptor in the liver. Nature Communications, 2018, 9, 1306.	12.8	49
15	Totally Stereoselective P-O to P-C Migration Rearrangement: Application to the Synthesis of New Chiralo-Hydroxyaryl Phosphine Oxides. Chemistry - A European Journal, 1998, 4, 1061-1067.	3.3	47
16	The LIM Domain Only 4 Protein Is a Metabolic Responsive Inhibitor of Protein Tyrosine Phosphatase 1B That Controls Hypothalamic Leptin Signaling. Journal of Neuroscience, 2013, 33, 12647-12655.	3.6	47
17	New lanthelliformisamine Derivatives as Antibiotic Enhancers against Resistant Gram-Negative Bacteria. Journal of Medicinal Chemistry, 2014, 57, 4263-4272.	6.4	47
18	Synthesis of mono-, bis-spiro- and dispiro-l²-lactams and evaluation of their antimalarial activities. Tetrahedron, 2011, 67, 8699-8704.	1.9	46

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19	Enantioselective formation of quaternary centers on \hat{l}^2 -ketoesters with chiral palladium QUIPHOS catalyst. Tetrahedron: Asymmetry, 2000, 11, 3585-3590.	1.8	45
20	Squalamine: A Polyvalent Drug of the Future?. Current Cancer Drug Targets, 2005, 5, 267-272.	1.6	45
21	Scope, limitations and mechanistic aspects in the selective homogeneous palladium-catalyzed reduction of alkenes under transfer hydrogen conditions. Tetrahedron, 2007, 63, 3899-3906.	1.9	45
22	Modified Cap Group Suberoylanilide Hydroxamic Acid Histone Deacetylase Inhibitor Derivatives Reveal Improved Selective Antileukemic Activity. Journal of Medicinal Chemistry, 2010, 53, 3038-3047.	6.4	44
23	Biophysical studies of the interaction of squalamine and other cationic amphiphilic molecules with bacterial and eukaryotic membranes: importance of the distribution coefficient in membrane selectivity. Chemistry and Physics of Lipids, 2010, 163, 131-140.	3.2	44
24	Enantioselective copper catalyzed Diels-Alder reaction using chiral quinoline-phosphine ligand. Tetrahedron Letters, 1998, 39, 9663-9666.	1.4	43
25	Synthesis and biological evaluation of some novel diastereoselective benzothiazole \hat{l}^2 -lactam conjugates. European Journal of Medicinal Chemistry, 2018, 143, 283-291.	5.5	43
26	Synthesis and antifungal activity of oxygenated cholesterol derivatives. Steroids, 2005, 70, 907-912.	1.8	41
27	Scope and limitations on aerosol drug delivery for the treatment of infectious respiratory diseases. Journal of Controlled Release, 2020, 325, 276-292.	9.9	41
28	Artificial Intelligence: The Future for Organic Chemistry?. ACS Omega, 2018, 3, 13263-13266.	3.5	38
29	Synthesis of novel \hat{I}^2 -lactams bearing an anthraquinone moiety, and evaluation of their antimalarial activities. Tetrahedron, 2012, 68, 4740-4744.	1.9	37
30	2P2I HUNTER: a tool for filtering orthosteric protein–protein interaction modulators via a dedicated support vector machine. Journal of the Royal Society Interface, 2014, 11, 20130860.	3.4	37
31	Pd(0) catalyzed asymmetric amination of a prochiral bicyclic allylic diacetate. Tetrahedron, 1998, 54, 10435-10448.	1.9	36
32	Squalamine, an original chemosensitizer to combat antibiotic-resistant Gram-negative bacteria. Journal of Antimicrobial Chemotherapy, 2010, 65, 799-801.	3.0	36
33	Polyamino geranic derivatives as new chemosensitizers to combat antibiotic resistant Gram-negative bacteria. Bioorganic and Medicinal Chemistry, 2013, 21, 1174-1179.	3.0	34
34	Polyamine derivatives: a revival of an old neglected scaffold to fight resistant Gram-negative bacteria?. Future Medicinal Chemistry, 2016, 8, 963-973.	2.3	34
35	Diastereoselective synthesis of potent antimalarial cis- \hat{l}^2 -lactam agents through a $[2\hat{A}+\hat{A}2]$ cycloaddition of chiral imines with a chiral ketene. European Journal of Medicinal Chemistry, 2014, 87, 364-371.	5.5	33
36	New stereoselective titanium reductive amination synthesis of 3-amino and polyaminosterol derivatives possessing antimicrobial activities. European Journal of Medicinal Chemistry, 2008, 43, 540-547.	5.5	30

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37	Antibacterial efficacy of inhaled squalamine in a rat model of chronic Pseudomonas aeruginosa pneumonia. Journal of Antimicrobial Chemotherapy, 2012, 67, 2452-2458.	3.0	30
38	Polyamino-Isoprenic Derivatives Block Intrinsic Resistance of P. aeruginosa to Doxycycline and Chloramphenicol In Vitro. PLoS ONE, 2016, 11, e0154490.	2.5	30
39	Three-component synthesis of chromeno \hat{l}^2 -lactam hybrids for inflammation and cancer screening. European Journal of Medicinal Chemistry, 2019, 179, 389-403.	5.5	29
40	Scope and Limitations of the Aromatic Anionic [1,3] P–O to P–C Rearrangement in the Synthesis of Chiral o -Hydroxyaryl Diazaphosphonamides. Tetrahedron, 2000, 56, 595-603.	1.9	28
41	New chiral organophosphorus derivatizing agent for the determination of enantiomeric composition of chloro- and bromohydrins by 31P NMR spectroscopy. Tetrahedron: Asymmetry, 2000, 11, 1273-1278.	1.8	28
42	Synthesis of New 3,20-Bispolyaminosteroid Squalamine Analogues and Evaluation of Their Antimicrobial Activities. Journal of Medicinal Chemistry, 2011, 54, 7417-7421.	6.4	28
43	Synthesis of new 7-aminosterol squalamine analogues with high antimicrobial activities through a stereoselective titanium reductive amination reaction. Tetrahedron, 2007, 63, 12968-12974.	1.9	27
44	Enantioselective Borane Catalyzed Reduction of Imines. Synlett, 1996, 1996, 177-178.	1.8	26
45	Beneficial Effect ofortho-Methoxy Groups in the Asymmetric Ring Opening ofmeso Epoxides with Silicon Tetrachloride Catalyzed by Chiralortho-Methoxyphenyldiazaphosphonamide Lewis Bases. Angewandte Chemie - International Edition, 2000, 39, 2554-2557.	13.8	26
46	Synthesis, docking and evaluation of in vitro anti-inflammatory activity of novel morpholine capped \hat{l}^2 -lactam derivatives. Bioorganic Chemistry, 2020, 102, 104091.	4.1	25
47	2P2Ichem: focused chemical libraries dedicated to orthosteric modulation of protein–protein interactions. MedChemComm, 2013, 4, 797-809.	3.4	24
48	A new 31P NMR method for the enantiomeric excess determination of diols and secondary diamines with C2 symmetry. Tetrahedron: Asymmetry, 1995, 6, 2353-2356.	1.8	23
49	Synthesis and antimicrobial/antimalarial activities of novel naphthalimido trans- \hat{l}^2 -lactam derivatives. Medicinal Chemistry Research, 2017, 26, 2235-2242.	2.4	23
50	Claramines: A New Class Of Broadâ€Spectrum Antimicrobial Agents With Bimodal Activity. ChemMedChem, 2018, 13, 1018-1027.	3.2	23
51	A-Ring-Modified Triterpenoids and Their Spermidine–Aldimines with Strong Antibacterial Activity. MolBank, 2019, 2019, M1078.	0.5	23
52	LMO4 is required to maintain hypothalamic insulin signaling. Biochemical and Biophysical Research Communications, 2014, 450, 666-672.	2.1	22
53	New Chiral Organophosphorus Catalysts in Asymmetric Synthesis. Topics in Current Chemistry, 2002, , 79-105.	4.0	21
54	New efficient hydrogen process production from organosilane hydrogen carriers derivatives. International Journal of Hydrogen Energy, 2010, 35, 3401-3405.	7.1	21

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55	Motuporamine Derivatives as Antimicrobial Agents and Antibiotic Enhancers against Resistant Gramâ€Negative Bacteria. ChemBioChem, 2017, 18, 276-283.	2.6	21
56	Insights into PPARÎ ³ Phosphorylation and Its Inhibition Mechanism. Journal of Medicinal Chemistry, 2020, 63, 4811-4823.	6.4	21
57	In vitro antibacterial activity of aminosterols against multidrug-resistant bacteria from patients with cystic fibrosis. Journal of Antimicrobial Chemotherapy, 2009, 64, 810-814.	3.0	20
58	Squalamine ointment for Staphylococcus aureus skin decolonization in a mouse model. Journal of Antimicrobial Chemotherapy, 2011, 66, 1306-1310.	3.0	20
59	6-Bromoindolglyoxylamido derivatives as antimicrobial agents and antibiotic enhancers. Bioorganic and Medicinal Chemistry, 2019, 27, 2090-2099.	3.0	20
60	Antimicrobial Activities of 3-Amino- and Polyaminosterol Analogues of Squalamine and Trodusquemine. Journal of Enzyme Inhibition and Medicinal Chemistry, 2008, 23, 860-865.	5.2	19
61	Anti-persister activity of squalamine against Acinetobacter baumannii. International Journal of Antimicrobial Agents, 2019, 53, 337-342.	2.5	19
62	Totally Regio- and Stereoselective P–O-to-P–C Rearrangement in the Synthesis of ChiralP-(o-Hydroxyaryl)diazaphospholidineP-Oxides. European Journal of Organic Chemistry, 1999, 1999, 1099-1105.	2.4	18
63	In vitro antifungal activity of aminosterols against moulds isolated from cystic fibrosis patients. Journal of Antimicrobial Chemotherapy, 2010, 65, 1307-1309.	3.0	18
64	Protein tyrosine phosphatase 1B regulates endothelial endoplasmic reticulum stress; role in endothelial dysfunction. Vascular Pharmacology, 2018, 109, 36-44.	2.1	18
65	Spermine Derivatives of Indoleâ€3â€carboxylic Acid, Indoleâ€3â€acetic Acid and Indoleâ€3â€acrylic Acid as Gramâ€Negative Antibiotic Adjuvants. ChemMedChem, 2021, 16, 513-523.	3.2	18
66	Efficient preparation of secondary aminoalcohols through a Ti(IV) reductive amination procedure. Application to the synthesis and antibacterial evaluation of new $3\hat{l}^2$ -N-[hydroxyalkyl]aminosteroid derivatives. Tetrahedron, 2008, 64, 4453-4459.	1.9	17
67	New development in the enantioselective ring opening of meso-epoxides by various chloride ion silicon sources catalyzed by an o-methoxyaryldiazaphosphonamide Lewis base. Tetrahedron: Asymmetry, 2000, 11 , 4441 - 4445 .	1.8	16
68	Synthesis of Some Novel 3-Spiro Monocyclic \hat{l}^2 -Lactams and Their Antibacterial and Antifungal Investigations. Iranian Journal of Science and Technology, Transaction A: Science, 2017, 41, 337-342.	1.5	16
69	Design, synthesis, activity evaluation and QSAR studies of novel antimalarial 1,2,3-triazolo- \hat{l}^2 -lactam derivatives. Journal of the Iranian Chemical Society, 2018, 15, 1311-1326.	2.2	16
70	Exploration of the antibiotic potentiating activity of indolglyoxylpolyamines. European Journal of Medicinal Chemistry, 2019, 183, 111708.	5.5	16
71	Polyamino-Isoprenyl Derivatives as Antibiotic Adjuvants and Motility Inhibitors for Bordetella bronchiseptica Porcine Pulmonary Infection Treatment. Frontiers in Microbiology, 2019, 10, 1771.	3.5	15
72	New Polyaminoisoprenyl Antibiotics Enhancers against Two Multidrug-Resistant Gram-Negative Bacteria from Enterobacter and Salmonella Species. Journal of Medicinal Chemistry, 2020, 63, 10496-10508.	6.4	14

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73	Synthesis of novel mono- and bis-Schiff bases of morpholine derivatives and the investigation of their antimalarial and antiproliferative activities. Medicinal Chemistry Research, 2015, 24, 4105-4112.	2.4	13
74	Synthesis, in-vitro biological evaluation, and molecular docking study of novel spiro-β-lactam-isatin hybrids. Medicinal Chemistry Research, 2022, 31, 1026-1034.	2.4	13
75	New efficient and totally stereoselective copper allylic benzoyloxylation of sterol derivatives. Tetrahedron: Asymmetry, 2005, 16, 3036-3041.	1.8	11
76	Polysilanes: The grail for a highly-neglected hydrogen storage source. International Journal of Hydrogen Energy, 2017, 42, 23004-23009.	7.1	11
77	Sulfonamideâ€Î²â€lactam Hybrids Incorporating the Piperazine Moiety as Potential Antiinflammatory Agent with Promising Antibacterial Activity. ChemistrySelect, 2021, 6, 5313-5319.	1.5	11
78	Soluble squalamine tablets for the rapid disinfection of home nebulizers of cystic fibrosis patients. Journal of Cystic Fibrosis, 2012, 11, 555-559.	0.7	10
79	Synthesis of some new monocyclic \hat{l}^2 -lactams as antimalarial agents. Journal of the Iranian Chemical Society, 2015, 12, 2083-2092.	2.2	10
80	Antibacterial Mode of Action of the Daucus carota Essential Oil Active Compounds against Campylobacter jejuni and Efflux-Mediated Drug Resistance in Gram-Negative Bacteria. Molecules, 2020, 25, 5448.	3.8	10
81	Efficient peptide coupling method of conjugated carboxylic acids with methyl ester amino acids hydrochloride. Application to the synthesis of Fa-Met, an important enzymatic substrate. Tetrahedron Letters, 2005, 46, 217-220.	1.4	9
82	<i>In vitro</i> activity of aminosterols against yeasts involved in blood stream infections. Medical Mycology, 2011, 49, 121-125.	0.7	9
83	Suitability of a new antimicrobial aminosterol formulation for aerosol delivery in cystic fibrosis. Journal of Antimicrobial Chemotherapy, 2011, 66, 2797-2800.	3.0	9
84	The Polyaminoisoprenyl Potentiator NV716 Revives Old Disused Antibiotics against Intracellular Forms of Infection by Pseudomonas aeruginosa. Antimicrobial Agents and Chemotherapy, 2021, 65, .	3.2	9
85	A comparison of three rapid and accurate bioluminescent antibiotic susceptibility tests. Journal of Pharmacological and Toxicological Methods, 2010, 61, 16-19.	0.7	8
86	Multiparametric Profiling for Identification of Chemosensitizers against Gram-Negative Bacteria. Frontiers in Microbiology, 2018, 9, 204.	3.5	8
87	Squalamine and Aminosterol Mimics Inhibit the Peptidoglycan Glycosyltransferase Activity of PBP1b. Antibiotics, 2020, 9, 373.	3.7	8
88	Characterization of a new aerosol antibiotic/adjuvant combination for the treatment of P. aeruginosa lung infections. International Journal of Pharmaceutics, 2020, 586, 119548.	5.2	8
89	Repurposing primaquine as a polyamine conjugate to become an antibiotic adjuvant. Bioorganic and Medicinal Chemistry, 2021, 38, 116110.	3.0	8
90	Development of New Antimicrobial Oleanonic Acid Polyamine Conjugates. Antibiotics, 2022, 11, 94.	3.7	8

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91	Structure-activity relationship studies on thiaplidiaquinones A and B as novel inhibitors of Plasmodium falciparum and farnesyltransferase. Bioorganic and Medicinal Chemistry, 2017, 25, 4433-4443.	3.0	7
92	A Novel N-Substituted Valine Derivative with Unique Peroxisome Proliferator-Activated Receptor \hat{I}^3 Binding Properties and Biological Activities. Journal of Medicinal Chemistry, 2020, 63, 13124-13139.	6.4	7
93	Chemical Highlights Supporting the Role of Lipid A in Efficient Biological Adaptation of Gram-Negative Bacteria to External Stresses. Journal of Medicinal Chemistry, 2021, 64, 1816-1834.	6.4	7
94	<i>In vitro</i> activity of aminosterols against dermatophytes. Medical Mycology, 2013, 51, 309-312.	0.7	6
95	Synthesis and Biological Activities of Naturally Functionalized Polyamines: An Overview. Current Medicinal Chemistry, 2021, 28, 3406-3448.	2.4	6
96	Enantioselective palladium catalyzed allylic substitution with a new phosphite ligand issued from (2S,5S)-hexanediol. Journal of Molecular Catalysis A, 2004, 212, 61-64.	4.8	5
97	First evidence for the use of polyamines as nucleophiles in a regioselective palladium-catalyzed allylic amination reaction. Tetrahedron, 2014, 70, 9718-9725.	1.9	5
98	A Double-Blind Randomized Placebo-Controlled Clinical Trial of Squalamine Ointment for tinea capitis Treatment. Mycopathologia, 2015, 179, 187-193.	3.1	5
99	Valorisation of the diterpene podocarpic acid – Antibiotic and antibiotic enhancing activities of polyamine conjugates. Bioorganic and Medicinal Chemistry, 2022, 64, 116762.	3.0	5
100	The polyamino-isoprenyl potentiator NV716 revives disused antibiotics against Gram-negative bacteria in broth, infected monocytes, or biofilms, by disturbing the barrier effect of their outer membrane. European Journal of Medicinal Chemistry, 2022, 238, 114496.	5 . 5	5
101	Efficient Method for the Synthesis of an Important Precursor of Constrained Peptides. Protein and Peptide Letters, 2005, 12, 281-282.	0.9	4
102	Synthesis of 7-dehydrocholesterol through a palladium catalyzed selective homoannular conjugated diene formation. Journal of Molecular Catalysis A, 2006, 253, 119-122.	4.8	4
103	Efficiency of a Tetracycline-Adjuvant Combination Against Multidrug Resistant Pseudomonas aeruginosa Tunisian Clinical Isolates. Antibiotics, 2020, 9, 919.	3.7	4
104	The aminosterol Claramine inhibits β-secretase 1–mediated insulin receptor cleavage. Journal of Biological Chemistry, 2021, 297, 100818.	3.4	4
105	In-Vitro Archaeacidal Activity of Biocides against Human-Associated Archaea. PLoS ONE, 2013, 8, e62738.	2.5	4
106	Letter to the editor regarding: "New development in the enantioselective ring opening of meso-epoxides by various chloride ion silicon sources catalyzed by an o-methoxyaryldiazaphosphonamide Lewis base― Tetrahedron: Asymmetry, 2002, 12, 3457.	1.8	3
107	InÂvitro antimicrobial activity of squalamine derivatives against mycobacteria. Tuberculosis, 2013, 93, 565-566.	1.9	3
108	Antibiotic Adjuvants to Rescue Pseudomonas aeruginosa from Tetracycline Antibiotics Resistance. Anti-Infective Agents, 2021, 19, 110-116.	0.4	2

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109	Feasibility of an inhaled antibiotic/adjuvant dry powder combination using an experimental design approach. International Journal of Pharmaceutics, 2021, 599, 120414.	5.2	2
110	Enhancing antibiotic activity to combat resistant Gram-negative bacteria: what's next?. Future Medicinal Chemistry, 2014, 6, 1849-1851.	2.3	1
111	Alaninyl variants of the marine natural product halocyamine A and their antibacterial properties. Tetrahedron, 2018, 74, 6929-6938.	1.9	1
112	Polyaminosteroid Analogues as Potent Antibacterial Agents Against Mupirocin-Resistant Staphylococcus aureus Strains. Anti-Infective Agents, 2020, 18, 239-244.	0.4	1
113	BINOL: A Versatile Chiral Reagent. ChemInform, 2005, 36, no.	0.0	O
114	Pd ⁰ â€Catalyzed Hydrogenolysis of a Bicyclic Allylic Diacetate. European Journal of Organic Chemistry, 2013, 2013, 6449-6454.	2.4	0
115	Efficient and selective microwave Oppenauer oxidation of sterol derivatives. Tetrahedron, 2021, 82, 131954.	1.9	О
116	Design and synthesis of new polyamine quinoline antibiotic enhancers to fight resistant gram-negative P.Âaeruginosa bacteria. European Journal of Medicinal Chemistry Reports, 2022, 5, 100054.	1.4	0