Jean Michel Brunel

List of Publications by Year
in descending order

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

#	Article	IF	Citations
1	Development of New Antimicrobial Oleanonic Acid Polyamine Conjugates. Antibiotics, 2022, 11, 94.	3.7	8
2	Synthesis, in-vitro biological evaluation, and molecular docking study of novel spiro-Î²-lactam-isatin hybrids. Medicinal Chemistry Research, 2022, 31, 1026-1034.	2.4	13
3	Valorisation of the diterpene podocarpic acid â€“ Antibiotic and antibiotic enhancing activities of polyamine conjugates. Bioorganic and Medicinal Chemistry, 2022, 64, 116762.	3.0	5
4	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
5	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
6	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
7	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
8	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
9	Efficient and selective microwave Oppenauer oxidation of sterol derivatives. Tetrahedron, 2021, 82, 131954.	1.9	0
10	Antibiotic Adjuvants to Rescue Pseudomonas aeruginosa from Tetracycline Antibiotics Resistance. Anti-Infective Agents, 2021, 19, 110-116.	0.4	2
11	Feasibility of an inhaled antibiotic/adjuvant dry powder combination using an experimental design approach. International Journal of Pharmaceutics, 2021, 599, 120414.	5.2	2
12	Repurposing primaquine as a polyamine conjugate to become an antibiotic adjuvant. Bioorganic and Medicinal Chemistry, 2021, 38, 116110.	3.0	8
13	Synthesis and Biological Activities of Naturally Functionalized Polyamines: An Overview. Current Medicinal Chemistry, 2021, 28, 3406-3448.	2.4	6
14	Sulfonamideâ€Î²â€lactam Hybrids Incorporating the Piperazine Moiety as Potential Antiinflammatory Agent with Promising Antibacterial Activity. ChemistrySelect, 2021, 6, 5313-5319.	1.5	11
15	The aminosterol Claramine inhibits Î²-secretase 1â€“mediated insulin receptor cleavage. Journal of Biological Chemistry, 2021, 297, 100818.	3.4	4
16	Polyaminosteroid Analogues as Potent Antibacterial Agents Against Mupirocin- Resistant Staphylococcus aureus Strains. Anti-Infective Agents, 2020, 18, 239-244.	0.4	1
17	Synthesis, docking and evaluation of in vitro anti-inflammatory activity of novel morpholine capped Î²-lactam derivatives. Bioorganic Chemistry, 2020, 102, 104091.	4.1	25
18	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

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19	Squalamine and Aminosterol Mimics Inhibit the Peptidoglycan Glycosyltransferase Activity of PBP1b. Antibiotics, 2020, 9, 373.	3.7	8
20	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
21	Efficiency of a Tetracycline-Adjuvant Combination Against Multidrug Resistant Pseudomonas aeruginosa Tunisian Clinical Isolates. Antibiotics, 2020, 9, 919.	3.7	4
22	A Novel N-Substituted Valine Derivative with Unique Peroxisome Proliferator-Activated Receptor Î³ Binding Properties and Biological Activities. Journal of Medicinal Chemistry, 2020, 63, 13124-13139.	6.4	7
23	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
24	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
25	Insights into PPARÎ³ Phosphorylation and Its Inhibition Mechanism. Journal of Medicinal Chemistry, 2020, 63, 4811-4823.	6.4	21
26	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
27	Exploration of the antibiotic potentiating activity of indolglyoxylpolyamines. European Journal of Medicinal Chemistry, 2019, 183, 111708.	5.5	16
28	Three-component synthesis of chromeno Î²-lactam hybrids for inflammation and cancer screening. European Journal of Medicinal Chemistry, 2019, 179, 389-403.	5.5	29
29	Antibiotic Adjuvants: Make Antibiotics Great Again!. Journal of Medicinal Chemistry, 2019, 62, 8665-8681.	6.4	163
30	6-Bromoindolglyoxylamido derivatives as antimicrobial agents and antibiotic enhancers. Bioorganic and Medicinal Chemistry, 2019, 27, 2090-2099.	3.0	20
31	A-Ring-Modified Triterpenoids and Their Spermidineâ€“Aldimines with Strong Antibacterial Activity. MolBank, 2019, 2019, M1078.	0.5	23
32	Anti-persister activity of squalamine against Acinetobacter baumannii. International Journal of Antimicrobial Agents, 2019, 53, 337-342.	2.5	19
33	Claramines: A New Class Of Broadâ€Spectrum Antimicrobial Agents With Bimodal Activity. ChemMedChem, 2018, 13, 1018-1027.	3.2	23
34	Design, synthesis, activity evaluation and QSAR studies of novel antimalarial 1,2,3-triazolo-Î²-lactam derivatives. Journal of the Iranian Chemical Society, 2018, 15, 1311-1326.	2.2	16
35	The beta secretase BACE1 regulates the expression of insulin receptor in the liver. Nature Communications, 2018, 9, 1306.	12.8	49
36	Synthesis and biological evaluation of some novel diastereoselective benzothiazole Î²-lactam conjugates. European Journal of Medicinal Chemistry, 2018, 143, 283-291.	5.5	43

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37	Alaninyl variants of the marine natural product halocyamine A and their antibacterial properties. Tetrahedron, 2018, 74, 6929-6938.	1.9	1
38	Artificial Intelligence: The Future for Organic Chemistry?. ACS Omega, 2018, 3, 13263-13266.	3.5	38
39	Multiparametric Profiling for Identification of Chemosensitizers against Gram-Negative Bacteria. Frontiers in Microbiology, 2018, 9, 204.	3.5	8
40	Protein tyrosine phosphatase 1B regulates endothelial endoplasmic reticulum stress; role in endothelial dysfunction. Vascular Pharmacology, 2018, 109, 36-44.	2.1	18
41	Synthesis of Some Novel 3-Spiro Monocyclic Î²-Lactams and Their Antibacterial and Antifungal Investigations. Iranian Journal of Science and Technology, Transaction A: Science, 2017, 41, 337-342.	1.5	16
42	Motuporamine Derivatives as Antimicrobial Agents and Antibiotic Enhancers against Resistant Gramâ€Negative Bacteria. ChemBioChem, 2017, 18, 276-283.	2.6	21
43	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
44	Synthesis and antimicrobial/antimalarial activities of novel naphthalimido trans-Î²-lactam derivatives. Medicinal Chemistry Research, 2017, 26, 2235-2242.	2.4	23
45	Polysilanes: The grail for a highly-neglected hydrogen storage source. International Journal of Hydrogen Energy, 2017, 42, 23004-23009.	7.1	11
46	Polyamino-Isoprenic Derivatives Block Intrinsic Resistance of P. aeruginosa to Doxycycline and Chloramphenicol In Vitro. PLoS ONE, 2016, 11, e0154490.	2.5	30
47	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
48	Functional properties of Claramine: A novel PTP1B inhibitor and insulin-mimetic compound. Biochemical and Biophysical Research Communications, 2015, 458, 21-27.	2.1	60
49	A Double-Blind Randomized Placebo-Controlled Clinical Trial of Squalamine Ointment for tinea capitis Treatment. Mycopathologia, 2015, 179, 187-193.	3.1	5
50	Chronic Stress Induces Anxiety via an Amygdalar Intracellular Cascade that Impairs Endocannabinoid Signaling. Neuron, 2015, 85, 1319-1331.	8.1	81
51	Synthesis of some new monocyclic Î²-lactams as antimalarial agents. Journal of the Iranian Chemical Society, 2015, 12, 2083-2092.	2.2	10
52	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
53	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
54	Enhancing antibiotic activity to combat resistant Gram-negative bacteria: what's next?. Future Medicinal Chemistry, 2014, 6, 1849-1851.	2.3	1

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55	2P2I HUNTER : a tool for filtering orthosteric proteinâ€“protein interaction modulators via a dedicated support vector machine. Journal of the Royal Society Interface, 2014, 11, 20130860.	3.4	37
56	LMO4 is required to maintain hypothalamic insulin signaling. Biochemical and Biophysical Research Communications, 2014, 450, 666-672.	2.1	22
57	New Ianthelliformisamine Derivatives as Antibiotic Enhancers against Resistant Gram-Negative Bacteria. Journal of Medicinal Chemistry, 2014, 57, 4263-4272.	6.4	47
58	Diastereoselective synthesis of potent antimalarial cis-Î²-lactam agents through a [2Â+Â2] cycloaddition of chiral imines with a chiral ketene. European Journal of Medicinal Chemistry, 2014, 87, 364-371.	5.5	33
59	InÂvitro antimicrobial activity of squalamine derivatives against mycobacteria. Tuberculosis, 2013, 93, 565-566.	1.9	3
60	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
61	Pd⁰â€Catalyzed Hydrogenolysis of a Bicyclic Allylic Diacetate. European Journal of Organic Chemistry, 2013, 2013, 6449-6454.	2.4	0
62	Polyamino geranic derivatives as new chemosensitizers to combat antibiotic resistant Gram-negative bacteria. Bioorganic and Medicinal Chemistry, 2013, 21, 1174-1179.	3.0	34
63	2P2Ichem: focused chemical libraries dedicated to orthosteric modulation of proteinâ€“protein interactions. MedChemComm, 2013, 4, 797-809.	3.4	24
64	In vitroactivity of aminosterols against dermatophytes. Medical Mycology, 2013, 51, 309-312.	0.7	6
65	In-Vitro Archaeacidal Activity of Biocides against Human-Associated Archaea. PLoS ONE, 2013, 8, e62738.	2.5	4
66	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
67	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
68	Synthesis of novel Î²-lactams bearing an anthraquinone moiety, and evaluation of their antimalarial activities. Tetrahedron, 2012, 68, 4740-4744.	1.9	37
69	In vitroactivity of aminosterols against yeasts involved in blood stream infections. Medical Mycology, 2011, 49, 121-125.	0.7	9
70	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
71	Synthesis of mono-, bis-spiro- and dispiro-Î²-lactams and evaluation of their antimalarial activities. Tetrahedron, 2011, 67, 8699-8704.	1.9	46
72	Squalamine ointment for Staphylococcus aureus skin decolonization in a mouse model. Journal of Antimicrobial Chemotherapy, 2011, 66, 1306-1310.	3.0	20

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73	Suitability of a new antimicrobial aminosterol formulation for aerosol delivery in cystic fibrosis. Journal of Antimicrobial Chemotherapy, 2011, 66, 2797-2800.	3.0	9
74	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
75	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
76	A comparison of three rapid and accurate bioluminescent antibiotic susceptibility tests. Journal of Pharmacological and Toxicological Methods, 2010, 61, 16-19.	0.7	8
77	New efficient hydrogen process production from organosilane hydrogen carriers derivatives. International Journal of Hydrogen Energy, 2010, 35, 3401-3405.	7.1	21
78	In vitro antifungal activity of aminosterols against moulds isolated from cystic fibrosis patients. Journal of Antimicrobial Chemotherapy, 2010, 65, 1307-1309.	3.0	18
79	New insights into the antibacterial mechanism of action of squalamine. Journal of Antimicrobial Chemotherapy, 2010, 65, 1688-1693.	3.0	83
80	Squalamine, an original chemosensitizer to combat antibiotic-resistant Gram-negative bacteria. Journal of Antimicrobial Chemotherapy, 2010, 65, 799-801.	3.0	36
81	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
82	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
83	Efficient preparation of secondary aminoalcohols through a Ti(IV) reductive amination procedure. Application to the synthesis and antibacterial evaluation of new 3Î²-N-[hydroxyalkyl]aminosteroid derivatives. Tetrahedron, 2008, 64, 4453-4459.	1.9	17
84	Squalamine: An Appropriate Strategy against the Emergence of Multidrug Resistant Gram-Negative Bacteria?. PLoS ONE, 2008, 3, e2765.	2.5	56
85	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
86	Update 1 of: BINOL:â€‰ A Versatile Chiral Reagent. Chemical Reviews, 2007, 107, PR1-PR45.	47.7	215
87	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
88	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
89	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
90	New efficient and totally stereoselective copper allylic benzoyloxylation of sterol derivatives. Tetrahedron: Asymmetry, 2005, 16, 3036-3041.	1.8	11

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91	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
92	BINOL: A Versatile Chiral Reagent. ChemInform, 2005, 36, no.	0.0	0
93	Squalamine: A Polyvalent Drug of the Future?. Current Cancer Drug Targets, 2005, 5, 267-272.	1.6	45
94	Efficient Method for the Synthesis of an Important Precursor of Constrained Peptides. Protein and Peptide Letters, 2005, 12, 281-282.	0.9	4
95	Synthesis and antifungal activity of oxygenated cholesterol derivatives. Steroids, 2005, 70, 907-912.	1.8	41
96	BINOL:â€‰ A Versatile Chiral Reagent. Chemical Reviews, 2005, 105, 857-898.	47.7	888
97	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
98	Synthesis and antifungal activity of cholesterol-hydrazone derivatives. European Journal of Medicinal Chemistry, 2004, 39, 1067-1071.	5.5	221
99	New Chiral Organophosphorus Catalysts in Asymmetric Synthesis. Topics in Current Chemistry, 2002, , 79-105.	4.0	21
100	Letter to the editor regarding: â€œNew development in the enantioselective ring opening of meso-epoxides by various chloride ion silicon sources catalyzed by an o-methoxyaryldiazaphosphonamide Lewis baseâ€• Tetrahedron: Asymmetry, 2002, 12, 3457.	1.8	3
101	Design of a new class of chiral quinolineâ€“phosphine ligands. Synthesis and application in asymmetric catalysis. Tetrahedron: Asymmetry, 2001, 12, 1345-1352.	1.8	68
102	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
103	Scope and Limitations of the Aromatic Anionic [1,3] Pâ€“O to Pâ€“C Rearrangement in the Synthesis of Chiral o -Hydroxyaryl Diazaphosphonamides. Tetrahedron, 2000, 56, 595-603.	1.9	28
104	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
105	Enantioselective formation of quaternary centers on Î²-ketoesters with chiral palladium QUIPHOS catalyst. Tetrahedron: Asymmetry, 2000, 11, 3585-3590.	1.8	45
106	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
107	Totally Regio- and Stereoselective Pâ€“O-to-Pâ€“C Rearrangement in the Synthesis of ChiralP-(o-Hydroxyaryl)diazaphospholidineP-Oxides. European Journal of Organic Chemistry, 1999, 1999, 1099-1105.	2.4	18
108	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 Ï€-Allyl Palladium Complex. Journal of Organic Chemistry, 1999, 64, 8940-8942.	3.2	112

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109	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
110	Phosphaneâ€“boranes: synthesis, characterization and synthetic applications. Coordination Chemistry Reviews, 1998, 178-180, 665-698.	18.8	135
111	Pd(0) catalyzed asymmetric amination of a prochiral bicyclic allylic diacetate. Tetrahedron, 1998, 54, 10435-10448.	1.9	36
112	Enantioselective copper catalyzed Diels-Alder reaction using chiral quinoline-phosphine ligand. Tetrahedron Letters, 1998, 39, 9663-9666.	1.4	43
113	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
114	Enantioselective Borane Catalyzed Reduction of Imines. Synlett, 1996, 1996, 177-178.	1.8	26
115	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
116	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