

Erwan Poupon

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2959260/publications.pdf>

Version: 2024-02-01

92
papers

2,041
citations

257450

24
h-index

315739

38
g-index

118
all docs

118
docs citations

118
times ranked

2297
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural products targeting strategies involving molecular networking: different manners, one goal. <i>Natural Product Reports</i> , 2019, 36, 960-980.	10.3	156
2	Biosynthesis and biomimetic synthesis of alkaloids isolated from plants of the <i>Nitraria</i> and <i>Myrioneuron</i> genera: an unusual lysine-based metabolism. <i>Natural Product Reports</i> , 2010, 27, 32-56.	10.3	98
3	Unified Synthesis of Quinone Sesquiterpenes Based on a Radical Decarboxylation and Quinone Addition Reaction. <i>Journal of the American Chemical Society</i> , 2002, 124, 12261-12267.	13.7	96
4	Unified biomimetic assembly of voacalgin A and bipleiophylline via divergent oxidative couplings. <i>Nature Chemistry</i> , 2017, 9, 793-798.	13.6	83
5	Emergence of diversity and stereochemical outcomes in the biosynthetic pathways of cyclobutane-centered marine alkaloid dimers. <i>Natural Product Reports</i> , 2016, 33, 820-842.	10.3	74
6	Biogenesis and Biomimetic Chemistry: Can Complex Natural Products Be Assembled Spontaneously?. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 27-42.	2.4	66
7	Effects of canthin-6-one alkaloids from <i>Zanthoxylum chiloperone</i> on <i>Trypanosoma cruzi</i> -infected mice. <i>Journal of Ethnopharmacology</i> , 2007, 109, 258-263.	4.1	56
8	Extraction, Hemisynthesis, and Synthesis of Canthin-6-one Analogues. Evaluation of Their Antifungal Activities. <i>Journal of Natural Products</i> , 2005, 68, 1581-1587.	3.0	51
9	Synthesis of (±)-Ilimaquinone via a Radical Decarboxylation and Quinone Addition Reaction. <i>Organic Letters</i> , 2002, 4, 819-822.	4.6	49
10	Revisiting Previously Investigated Plants: A Molecular Networking-Based Study of <i>Geissospermum laeve</i> . <i>Journal of Natural Products</i> , 2017, 80, 1007-1014.	3.0	45
11	Annonaceous Acetogenins: The Hydroxyl Groups and THF Rings Are Crucial Structural Elements for Targeting the Mitochondria, Demonstration with the Synthesis of Fluorescent Squamocin Analogues. <i>ChemBioChem</i> , 2005, 6, 979-982.	2.6	42
12	<i>Zanthoxylum chiloperone</i> leaves extract: First sustainable Chagas disease treatment. <i>Journal of Ethnopharmacology</i> , 2011, 133, 986-993.	4.1	37
13	Collected mass spectrometry data on monoterpene indole alkaloids from natural product chemistry research. <i>Scientific Data</i> , 2019, 6, 15.	5.3	37
14	Bioinspired Oxidative Cyclization of the Geissoschizine Skeleton for the Total Synthesis of (±)-Excelsinidine. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 12294-12298.	13.8	35
15	Spontaneous Biomimetic Formation of (±)-Dictazole...B under Irradiation with Artificial Sunlight. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 6419-6424.	13.8	32
16	Biomimetic One-Step Access to Nitramine from Simple C5 Units. Revision of the Previously Reported Structure of Epinitramine to Nitramine. <i>Organic Letters</i> , 2005, 7, 2497-2499.	4.6	30
17	Preakammicine: A Long-Awaited Missing Link in the Biosynthesis of Monoterpene Indole Alkaloids. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 1494-1499.	2.4	29
18	CANPA: Computer-Assisted Natural Products Anticipation. <i>Analytical Chemistry</i> , 2019, 91, 11247-11252.	6.5	29

#	ARTICLE	IF	CITATIONS
19	New Piperidine Scaffolds via Nucleophilic Reactivity of (âˆ“) -Phenyloxazolopiperidine. <i>Journal of Organic Chemistry</i> , 2004, 69, 3836-3841.	3.2	28
20	Biomimetic investigations from reactive lysine-derived C5 units: one step synthesis of complex polycyclic alkaloids from the <i>Nitraria</i> genus. <i>Tetrahedron</i> , 2006, 62, 5248-5253.	1.9	28
21	Biomimetic Synthesis of Tangutorine Following New Biogenetic Proposals. <i>Organic Letters</i> , 2009, 11, 1891-1894.	4.6	28
22	New Building Blocks for Tackling the Synthesis of Polyhydroxylated Piperidines:Â Exeditious Synthesis of Amino Derivatives in the 1-Deoxynojirimycin Series. <i>Journal of Organic Chemistry</i> , 2000, 65, 7208-7210.	3.2	25
23	Composition, and Antimicrobial and Remarkable Antiprotozoal Activities of the Essential Oil of Rhizomes of <i>Aframomum sceptrum</i> K. <i>Chemistry and Biodiversity</i> , 2011, 8, 658-667.	2.1	25
24	An Unprecedented Blue Chromophore Found in Nature using a â€œChemistry Firstâ€ and Molecular Networking Approach: Discovery of Dactylocyanines Aâ€H. <i>Chemistry - A European Journal</i> , 2017, 23, 14454-14461.	3.3	25
25	Theionbrunonines A and B: Dimeric Vobasine Alkaloids Tethered by a Thioether Bridge from <i>Mostuea brunonis</i> . <i>Organic Letters</i> , 2018, 20, 6596-6600.	4.6	25
26	Bioinspired Oxidative Cyclization of the Geissoschizine Skeleton for Enantioselective Total Synthesis of Mavacuran Alkaloids. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9861-9865.	13.8	25
27	Labdane diterpenoids from <i>Aframomum sceptrum</i> : NMR study and antiparasitic activities. <i>Phytochemistry Letters</i> , 2011, 4, 240-244.	1.2	24
28	dsDNA, ssDNA, G-quadruplex DNA, and nucleosomal DNA electrochemical screening using canthin-6-one alkaloid-modified electrodes. <i>Electrochimica Acta</i> , 2014, 115, 546-552.	5.2	23
29	DNAâ€Templated [2+2] Photocycloaddition: A Straightforward Entry into the Aplysinopsin Family of Natural Products. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 11786-11791.	13.8	23
30	Synthesis of polyhydroxylated piperidines and evaluation as glycosidase inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2004, 12, 5091-5097.	3.0	22
31	Highly cytotoxic and neurotoxic acetogenins of the Annonaceae: New putative biological targets of squamocin detected by activity-based protein profiling. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 5741-5744.	2.2	22
32	Molecular Networking Reveals Serpentinine-Related Bisindole Alkaloids from <i>Picalima nitida</i> , a Previously Well-Investigated Species. <i>Journal of Natural Products</i> , 2020, 83, 1207-1216.	3.0	22
33	Biosynthetic Routes to Natural Isocyanides. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 1919-1929.	2.4	22
34	Synthesis and reactivity of pelletierine-derived building blocks and pelletierine analogs. <i>Tetrahedron</i> , 2012, 68, 6276-6283.	1.9	21
35	Solid-State Electrochemical Assay of Heme-Binding Molecules for Screening of Drugs with Antimalarial Potential. <i>Analytical Chemistry</i> , 2013, 85, 4014-4021.	6.5	21
36	Divergent Oxidative Couplings between Indoles and 2,3-Dihydroxybenzoic Acid Derivatives for the Biomimetic Synthesis of Voacalgine A and Bipleiophylline. <i>Synthesis</i> , 2018, 50, 4229-4242.	2.3	20

#	ARTICLE	IF	CITATIONS
37	The antiplasmodium effects of a traditional South American remedy: <i>Zanthoxylum chiloperone</i> var. <i>angustifolium</i> against chloroquine resistant and chloroquine sensitive strains of <i>Plasmodium falciparum</i> . <i>Revista Brasileira De Farmacognosia</i> , 2011, 21, 652-661.	1.4	18
38	A Unified Bioinspired "Aplysinopsin Cascade": Total Synthesis of (±)-Tubastrindole B and Related Biosynthetic Congeners. <i>Organic Letters</i> , 2014, 16, 4980-4983.	4.6	18
39	Chiral Nonracemic Synthesis and Reactivity of Two New Endocyclic Enamines in the Phenyloxazopiperidine Series. <i>Journal of Organic Chemistry</i> , 2000, 65, 3209-3212.	3.2	17
40	Semisynthesis and Screening of a Small Library of Pro-Apoptotic Squamocin Analogues: Selection and Study of a Benzoquinone Hybrid with an Improved Biological Profile.. <i>ChemMedChem</i> , 2006, 1, 118-129.	3.2	17
41	Pleikomenines A and B: Dimeric Aspidofractinine Alkaloids Tethered with a Methylene Group. <i>Organic Letters</i> , 2017, 19, 6180-6183.	4.6	17
42	Structure Reassignment of Melonine and Quantum-Chemical Calculations-Based Assessment of Biosynthetic Scenarios Leading to Its Revised and Original Structures. <i>Organic Letters</i> , 2021, 23, 5964-5968.	4.6	17
43	Reductive and Oxidative Transformations of the N-(Cyanomethyl)oxazolidine System to Expand the Chiral Pool of Piperidines. <i>European Journal of Organic Chemistry</i> , 2004, 2004, 4823-4829.	2.4	16
44	Analogues of cytotoxic squamocin using reliable reactions: new insights into the reactivity and role of the 1,2-unsaturated lactone of the annonaceous acetogenins. <i>Tetrahedron</i> , 2006, 62, 6248-6257.	1.9	16
45	Particular behavior of $\alpha^{\text{C}}\text{C}6\text{C}2$ units TM in the Chichibabin pyridine synthesis and biosynthetic implications. <i>Tetrahedron Letters</i> , 2011, 52, 3523-3526.	1.4	16
46	Phenylpropane as an Alternative Dearomatizing Unit of Indoles: Discovery of Inaequalisines A and B Using Substructure-Informed Molecular Networking. <i>Organic Letters</i> , 2020, 22, 6077-6081.	4.6	16
47	Alkaloids from Rutaceae: activities of canthin-6-one alkaloids and synthetic analogues on glioblastoma stems cells. <i>MedChemComm</i> , 2012, 3, 771.	3.4	15
48	Biomimetic Assembly of Leucoridine A. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 1894-1898.	2.4	15
49	Manipulating Simple Reactive Chemical Units: Fishing for Alkaloids from Complex Mixtures. <i>Chemistry - A European Journal</i> , 2015, 21, 10604-10615.	3.3	15
50	Bioinspired Divergent Oxidative Cyclizations of Geissoschizine: Total Synthesis of (±)-7-oxo-Excelsinidine, (+)-16-epi-16-pleiocarpamine, (+)-16-hydroxymethyl-16-pleiocarpamine and (+)-17-oxo-Excelsinidine. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 6340-6351.		15
51	Bioinspired Oxidative Cyclization of the Geissoschizine Skeleton for the Total Synthesis of (±)-7-oxo-Excelsinidine. <i>Angewandte Chemie</i> , 2018, 130, 12474-12478.	2.0	14
52	The chemistry of mavacurane alkaloids: a rich source of bis-indole alkaloids. <i>Natural Product Reports</i> , 2021, 38, 1852-1886.	10.3	14
53	Biotransformations versus chemical modifications: new cytotoxic analogs of marine sesquiterpene ilimaquinone. <i>Tetrahedron Letters</i> , 2016, 57, 4922-4925.	1.4	12
54	Phytoelectrochemical analysis of <i>Zanthoxylum chiloperone</i> . <i>Phytochemical Analysis</i> , 2017, 28, 171-175.	2.4	12

#	ARTICLE	IF	CITATIONS
55	Remarkable substituent effect: Î²-aminosquamocin, a potent dual inhibitor of mitochondrial complexes I and III. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2005, 1709, 191-194.	1.0	11
56	Antiproliferative Activity of <i>trans-Avicennol</i> from <i>Zanthoxylum chiloperone</i> var. <i>angustifolium</i> against Human Cancer Stem Cells. <i>Journal of Natural Products</i> , 2012, 75, 257-261.	3.0	11
57	Biomimetic Three-Component Assembly of the Central Core of Halichonadins K and L. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 453-455.	2.4	11
58	Harvesting canthinones: identification of the optimal seasonal point of harvest of <i>Zanthoxylum chiloperone</i> leaves as a source of 5-methoxycanthin-6-one. <i>Natural Product Research</i> , 2015, 29, 2054-2058.	1.8	11
59	A Ring-Distortion Strategy from Marine Natural Product Ilimaquinone Leads to Quorum Sensing Modulators. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 2486-2497.	2.4	11
60	Insights into the Biosynthesis of Cyclic Guanidine Alkaloids from Crambeidae Marine Sponges. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 520-525.	13.8	11
61	An Expedient Total Synthesis of the Natural Stereomeric Mixture of Stenusine Following a Possible Biogenetic Pathway. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 1493-1495.	13.8	10
62	Biogenetic Relationships between Annonaceous Acetogenins: Squamocin Is Not a Precursor of Chamuarinin Based on a Semisynthetic Study. <i>Journal of Natural Products</i> , 2007, 70, 300-303.	3.0	10
63	Biomimetically relevant self-condensations of C5 units derived from lysine. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 2522.	2.8	10
64	Synthesis of the Indolic Pentacyclic Core of Manadomanzamine A Following Biogenetically Based Strategies. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 1147-1157.	2.4	10
65	Bioinspired Oxidative Cyclization of the Geissoschizine Skeleton for Enantioselective Total Synthesis of Mavacuran Alkaloids. <i>Angewandte Chemie</i> , 2019, 131, 9966-9970.	2.0	10
66	Pyrone and Unusually Furanone-substituted Flavones from the Leaves of <i>Hoslundia opposita</i> . <i>Planta Medica</i> , 2012, 78, 1777-1779.	1.3	9
67	Harnessing the Intrinsic Reactivity within the Aplysinopsin Series for the Synthesis of Intricate Dimers: Natural from Start to Finish. <i>Synthesis</i> , 2015, 47, 2367-2376.	2.3	9
68	Bioinspired Early Divergent Oxidative Cyclizations toward Pleiocarpamine, Talbotine, and Strictamine. <i>Organic Letters</i> , 2021, 23, 1355-1360.	4.6	9
69	Biodegradable polymeric nanoformulation based on the antiprotozoal canthin-6-one. <i>Journal of Nanoparticle Research</i> , 2011, 13, 6737-6746.	1.9	8
70	Polyneuridine aldehyde: structure, stability overviews and a plausible origin of flavopereirine. <i>Tetrahedron Letters</i> , 2016, 57, 1718-1720.	1.4	8
71	DNA-Templated [2+2] Photocycloaddition: A Straightforward Entry into the Aplysinopsin Family of Natural Products. <i>Angewandte Chemie</i> , 2018, 130, 11960-11965.	2.0	8
72	Questions about the structures of nitraine and nitraine. <i>Tetrahedron Letters</i> , 2011, 52, 6453-6456.	1.4	7

#	ARTICLE	IF	CITATIONS
73	Solution Phase and Nanoparticulate Biosynthetically Inspired Interconnections in the Canthin-6-one β -Carboline Series and Study of Phenotypic Properties on <i>C. elegans</i> . <i>European Journal of Organic Chemistry</i> , 2013, 2013, 5821-5828.	2.4	7
74	Mimicking the Main Events of the Biosynthesis of Drimentines: Synthesis of β -Sodrimentine A and Related Compounds. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 2954-2958.	2.4	7
75	Ilmaquinone and 5-epi-ilmaquinone: Beyond a Simple Diastereomeric Ratio, Biosynthetic Considerations from NMR-Based Analysis. <i>Australian Journal of Chemistry</i> , 2017, 70, 743.	0.9	7
76	Voatriafricanines A and B, Trimeric Vobasine-Aspidosperma-Aspidosperma Alkaloids from <i>Voacanga africana</i> . <i>Journal of Natural Products</i> , 2021, 84, 2755-2761.	3.0	7
77	Spontaneous Formation of Nitrarine and Polycyclic Skeletons Related to <i>Nitraria</i> Indolic Alkaloids under Non-Enzymic Conditions. <i>Chemistry - A European Journal</i> , 2013, 19, 14515-14520.	3.3	6
78	Chemical Insights into the Anchinopeptolide Series. <i>European Journal of Organic Chemistry</i> , 2019, 2019, 5515-5518.	2.4	6
79	5-Aminopenta-2,4-dienals: Synthesis, Activation towards Nucleophiles, Molecular Modeling and Biosynthetic Implications in Relation to the Manzamine Alkaloids. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 4973-4984.	2.4	5
80	In Silico Anticipation of Metabolic Pathways Extended to Organic Chemistry Reactions: A Case Study with Caffeine Alkaline Hydrolysis and The Origin of Camellimidazoles. <i>Chemistry - A European Journal</i> , 2020, 26, 12936-12940.	3.3	4
81	Pyrrovobasine, hybrid alkylated pyrrolidine monoterpene indole alkaloid pseudodimer discovered using a combination of mass spectral and NMR-based machine learning annotations. <i>Organic and Biomolecular Chemistry</i> , 2021, 20, 98-105.	2.8	4
82	Chapter 4 Quinone sesquiterpenes: A challenge for the development of a new synthetic methodology. <i>Strategies and Tactics in Organic Synthesis</i> , 2004, 5, 111-131.	0.1	3
83	Bioelectrochemical monitoring of soluble guanylate cyclase inhibition by the natural β -carboline canthin-6-one. <i>Journal of Molecular Structure</i> , 2017, 1134, 661-667.	3.6	3
84	Chemical Constituents of <i>Nitraria retusa</i> Grown in Egypt. <i>Chemistry of Natural Compounds</i> , 2017, 53, 994-996.	0.8	3
85	Biosynthetically Relevant Reactivity of Polyneuridine Aldehyde. <i>European Journal of Organic Chemistry</i> , 2020, 2020, 6989-6991.	2.4	3
86	Solid-Phase Extraction Embedded Dialysis (SPEED), an Innovative Procedure for the Investigation of Microbial Specialized Metabolites. <i>Marine Drugs</i> , 2021, 19, 371.	4.6	3
87	Chemoinformatic Exploration of Bioinspired Metabolomes Illuminates Diacetyl Assembly Pathways Toward Nesteretal A-Like Cage Molecules. <i>Organic Letters</i> , 2022, 24, 1247-1252.	4.6	3
88	Implementation of an MS/MS Spectral Library for Monoterpene Indole Alkaloids. <i>Methods in Molecular Biology</i> , 2022, , 87-100.	0.9	2
89	Quinone Sesquiterpenes: A Challenge for the Development of a New Synthetic Methodology. <i>ChemInform</i> , 2005, 36, no.	0.0	1
90	Frontispiece: An Unprecedented Blue Chromophore Found in Nature using a Chemistry First and Molecular Networking Approach: Discovery of Dactylocyanines A-H. <i>Chemistry - A European Journal</i> , 2017, 23, .	3.3	0

#	ARTICLE	IF	CITATIONS
91	Divergent Oxidative Couplings between Indoles and 2,3-Dihydroxybenzoic Acid Derivatives for the Biomimetic Synthesis of Voacalgine A and Bipleiophylline. <i>Synthesis</i> , 2018, 50, e4-e4.	2.3	0
92	Insights into the Biosynthesis of Cyclic Guanidine Alkaloids from Crambeidae Marine Sponges. <i>Angewandte Chemie</i> , 2019, 131, 530-535.	2.0	0