

Ariel M Sarotti

List of Publications by Year in descending order

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87
papers

3,343
citations

201575

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155592

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docs citations

87
times ranked

2646
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical review on the use of DP4+ in the structural elucidation of natural products: the good, the bad and the ugly. A practical guide. <i>Natural Product Reports</i> , 2022, 39, 58-76.	5.2	85
2	New and bioactive polyketides from Hawaiian marine-derived fungus <i>Trichoderma</i> sp. FM652. <i>Natural Product Research</i> , 2022, 36, 5984-5990.	1.0	6
3	Polyketides, diketopiperazines and an isochromanone from the marine-derived fungal strain <i>Fusarium graminearum</i> FM1010 from Hawaii. <i>Phytochemistry</i> , 2022, 198, 113138.	1.4	4
4	BOPHY-Fullerene C ₆₀ Dyad as a Photosensitizer for Antimicrobial Photodynamic Therapy. <i>Chemistry - A European Journal</i> , 2022, 28, .	1.7	15
5	Discovery of unusual dimeric piperazyl cyclopeptides encoded by a <i>Lentzea flaviterrucosa</i> DSM 44664 biosynthetic supercluster. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2117941119.	3.3	6
6	ML-DP4: An Integrated Quantum Mechanics-Machine Learning Approach for Ultrafast NMR Structural Elucidation. <i>Organic Letters</i> , 2022, 24, 7487-7491.	2.4	29
7	Thermal decomposition of hexamethylenetetramine: mechanistic study and identification of reaction intermediates via a computational and NMR approach. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 7374-7378.	1.5	6
8	BF ₃ -OEt ₂ -Catalyzed Unexpected Stereoselective Formation of 2,4-trans-Diallyl-2-methyl-6-aryltetrahydro-2H-pyrans with Quaternary Stereocenters. <i>Journal of Organic Chemistry</i> , 2021, 86, 6518-6527.	1.7	2
9	Sensitivity Analysis of DP4+ with the Probability Distribution Terms: Development of a Universal and Customizable Method. <i>Journal of Organic Chemistry</i> , 2021, 86, 8544-8548.	1.7	61
10	NF- κ B inhibitory, antimicrobial and antiproliferative potentials of compounds from Hawaiian fungus <i>Aspergillus polyporicola</i> FS910. <i>3 Biotech</i> , 2021, 11, 391.	1.1	0
11	New Alkaloids From a Hawaiian Fungal Strain <i>Aspergillus felis</i> FM324. <i>Frontiers in Chemistry</i> , 2021, 9, 724617.	1.8	1
12	Are Computational Methods Useful for Structure Elucidation of Large and Flexible Molecules? Belizentrin as a Case Study. <i>Organic Letters</i> , 2021, 23, 503-507.	2.4	14
13	Looking at the big picture in activation strain model/energy decomposition analysis: the case of the ortho-para regioselectivity rule in Diels-Alder reactions. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 1104-1111.	1.5	4
14	Redefining the Impact of Boltzmann Analysis in the Stereochemical Assignment of Polar and Flexible Molecules by NMR Calculations. <i>Organic Letters</i> , 2020, 22, 52-56.	2.4	45
15	In Silico Reassignment of (+)-Diplopyrone by NMR Calculations: Use of a DP4-DP4+/DIP Tandem to Revise Both Relative and Absolute Configuration. <i>Journal of Organic Chemistry</i> , 2020, 85, 11566-11570.	1.7	19
16	NMR Calculations with Quantum Methods: Development of New Tools for Structural Elucidation and Beyond. <i>Accounts of Chemical Research</i> , 2020, 53, 1922-1932.	7.6	84
17	Waikikiamides A-C: Complex Diketopiperazine Dimer and Diketopiperazine-Polyketide Hybrids from a Hawaiian Marine Fungal Strain <i>Aspergillus</i> sp. FM242. <i>Organic Letters</i> , 2020, 22, 4408-4412.	2.4	25
18	Design, synthesis and evaluation of novel levoglucosenone derivatives as promising anticancer agents. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2020, 30, 127247.	1.0	16

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19	Re-Engineering Organocatalysts for Asymmetric Friedel-Crafts Alkylation of Indoles through Computational Studies. <i>Journal of Organic Chemistry</i> , 2020, 85, 9969-9978.	1.7	15
20	Quantum chemical computation and machine learning in NMR. <i>Magnetic Resonance in Chemistry</i> , 2020, 58, 477-477.	1.1	2
21	The Risks of Automation: A Study on DFT Energy Miscalculations and Its Consequences in NMR-based Structural Elucidation. <i>Organic Letters</i> , 2020, 22, 3561-3565.	2.4	19
22	Total Synthesis and Structural Validation of Phosdiecin A via Asymmetric Alcohol-Mediated Carbonyl Reductive Coupling. <i>Journal of the American Chemical Society</i> , 2019, 141, 13778-13782.	6.6	11
23	Exhaustive exploration of the conformational landscape of mono- and disubstituted five-membered rings by DFT and MP2 calculations. <i>RSC Advances</i> , 2019, 9, 24134-24145.	1.7	15
24	Palladium-Catalyzed Formation of Substituted Tetrahydropyrans: Mechanistic Insights and Structural Revision of Natural Products. <i>Synthesis</i> , 2019, 51, 1545-1560.	1.2	8
25	On the effect of intramolecular H-bonding in the configurational assessment of polyhydroxylated compounds with computational methods. The hyacinthacines case. <i>Carbohydrate Research</i> , 2019, 474, 72-79.	1.1	10
26	Combining the Power of <i>J</i> Coupling and DP4 Analysis on Stereochemical Assignments: The <i>J</i> -DP4 Methods. <i>Organic Letters</i> , 2019, 21, 4003-4007.	2.4	106
27	An Unusual Benzoisoquinoline-9-one Derivative and Other Related Compounds with Antiproliferative Activity from Hawaiian Endophytic Fungus <i>Peyronella</i> sp. FT431. <i>Molecules</i> , 2019, 24, 196.	1.7	11
28	Synthesis of Triazole Derivatives of Levoglucosenone As Promising Anticancer Agents: Effective Exploration of the Chemical Space through <i>retro</i> - <i>aza</i> -Michael/ <i>aza</i> -Michael Isomerizations. <i>Journal of Organic Chemistry</i> , 2018, 83, 3516-3528.	1.7	25
29	Proton-Dependent Switching of a Novel Amino Chlorin Derivative as a Fluorescent Probe and Photosensitizer for Acidic Media. <i>Chemistry - A European Journal</i> , 2018, 24, 5950-5961.	1.7	13
30	NMR and experimental reinvestigation of the condensation reaction between β -methylene- α,β -unsaturated aldehydes and propargyl aldehydes. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 1442-1447.	1.5	7
31	Levoglucosenone and Its New Applications: Valorization of Cellulose Residues. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 590-604.	1.2	89
32	Why lamivudine assembles into double-stranded helices in crystals: salt heterosynthon versus base-pairing homosynthon. <i>CrystEngComm</i> , 2018, 20, 3049-3057.	1.3	2
33	Structural revision of two unusual rhamnofolane diterpenes, curcusones I and J, by means of DFT calculations of NMR shifts and coupling constants. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 944-950.	1.5	37
34	A Domino Epoxide Ring-Opening Xanthate Migration Reaction: An Alternative Entry to Thiosugars. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 6848-6856.	1.2	8
35	General Quantum-Based NMR Method for the Assignment of Absolute Configuration by Single or Double Derivatization: Scope and Limitations. <i>Journal of Organic Chemistry</i> , 2018, 83, 11839-11849.	1.7	21
36	Flabellipparicine, a Flabelliformide-Apparicine-Type Bisindole Alkaloid from <i>Tabernaemontana divaricata</i> . <i>Journal of Natural Products</i> , 2018, 81, 1976-1983.	1.5	32

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37	Sphaerialactonam, a β -lactam- γ -isochromanone from the Hawaiian endophytic fungus <i>Paraphaeosphaeria</i> sp. FT462. <i>Tetrahedron Letters</i> , 2017, 58, 1330-1333.	0.7	22
38	Solvatomorphs of 25,26,27,28-tetrahydroxycalix[4]arene and 5,11,17,23-tetramino-25,26,27,28-tetrabutoxycalix[4]arene: quenching photoluminescence through switching the guest. <i>CrystEngComm</i> , 2017, 19, 1792-1800.	1.3	5
39	Verbenanone, an octahydro-5 H -chromen-5-one from a Hawaiian-plant associated fungus FT431. <i>Tetrahedron Letters</i> , 2017, 58, 2290-2293.	0.7	16
40	Experimental and theoretical second harmonic generation and photoluminescence from the pseudo-centrosymmetric dihydrochloride salt dihydrate of trans-1,2-bis(4-pyridyl)ethene. <i>CrystEngComm</i> , 2017, 19, 346-354.	1.3	5
41	Mechanistic insight into the acid-catalyzed isomerization of biomass-derived polysubstituted pyrrolidines: an experimental and DFT study. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 426-434.	1.5	12
42	Heliotropiumides A and B, new phenolamides with N -carbamoyl putrescine moiety from <i>Heliotropium foertherianum</i> collected in Hawaii and their biological activities. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017, 27, 4630-4634.	1.0	4
43	NF- β inhibitors, unique β -pyranol- β -lactams with sulfide and sulfoxide moieties from Hawaiian plant <i>Lycopodiella cernua</i> derived fungus <i>Paraphaeosphaeria neglecta</i> FT462. <i>Scientific Reports</i> , 2017, 7, 10424.	1.6	24
44	Winged-Cone Conformation in Hexa- <i>p</i> -tert-butylcalix[6]arene Driven by the Unusually Strong Guest Encapsulation. <i>ACS Omega</i> , 2017, 2, 5315-5323.	1.6	4
45	Catalytic Asymmetric Synthesis and Stereochemical Revision of (+)-Cryptoconcatone H. <i>Journal of Organic Chemistry</i> , 2017, 82, 9191-9197.	1.7	21
46	Determination of the Relative Configuration of Terminal and Spiroepoxides by Computational Methods. Advantages of the Inclusion of Unscaled Data. <i>Journal of Organic Chemistry</i> , 2017, 82, 1873-1879.	1.7	51
47	A New N-methoxypyridone from the Co-Cultivation of Hawaiian Endophytic Fungi <i>Camporesia sambuci</i> FT1061 and <i>Epicoccum sorghinum</i> FT1062. <i>Molecules</i> , 2017, 22, 1166.	1.7	27
48	Experimental and theoretical insights in the alkene-arene intramolecular π -stacking interaction. <i>Beilstein Journal of Organic Chemistry</i> , 2016, 12, 1616-1623.	1.3	20
49	Computational Chemistry Driven Solution to Rubriflordilactone B. <i>Organic Letters</i> , 2016, 18, 6420-6423.	2.4	42
50	Synthesis of a 3-Thiomannoside. <i>Organic Letters</i> , 2016, 18, 1748-1751.	2.4	11
51	Thermodynamically driven, syn-selective vinylogous aldol reaction of tetronamides. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 4897-4907.	1.5	13
52	Substituent-Modulated Conformation and Supramolecular Assembly of Tetronamides. <i>Crystal Growth and Design</i> , 2016, 16, 5798-5810.	1.4	6
53	Computational Chemistry to the Rescue: Modern Toolboxes for the Assignment of Complex Molecules by GIAO NMR Calculations. <i>Chemistry - A European Journal</i> , 2016, 22, 12246-12261.	1.7	177
54	A theoretical study of the Duff reaction: insights into its selectivity. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 10496-10501.	1.5	26

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55	Total synthesis and stereochemical assignment of cryptolatifolione. RSC Advances, 2015, 5, 53471-53476.	1.7	8
56	Beyond DP4: an Improved Probability for the Stereochemical Assignment of Isomeric Compounds using Quantum Chemical Calculations of NMR Shifts. Journal of Organic Chemistry, 2015, 80, 12526-12534.	1.7	890
57	Cascade cyclization triggered by imine formation. Formal synthesis of the alkaloid (±)-stemoamide and its 9a-epimer. Tetrahedron Letters, 2015, 56, 6664-6668.	0.7	16
58	Understanding reactivity and regioselectivity in Diels-Alder reactions of a sugar-derived dienophile bearing two competing EWGs. An experimental and computational study. Carbohydrate Research, 2015, 415, 54-59.	1.1	2
59	Joint Experimental, in Silico, and NMR Studies toward the Rational Design of Iminium-Based Organocatalyst Derived from Renewable Sources. Journal of Organic Chemistry, 2015, 80, 7626-7634.	1.7	28
60	Total Synthesis and Tentative Structural Elucidation of Cryptomoscatone E3: Interplay of Experimental and Computational Studies. Journal of Organic Chemistry, 2015, 80, 12027-12037.	1.7	27
61	GIAO ¹ H COSY Simulations Merged with Artificial Neural Networks Pattern Recognition Analysis. Pushing the Structural Validation a Step Forward. Journal of Organic Chemistry, 2015, 80, 9371-9378.	1.7	69
62	Montmorillonite K-10 promoted synthesis of chiral dioxo-caged compounds derived from levoglucosenone. Carbohydrate Research, 2015, 402, 67-70.	1.1	6
63	Unraveling polar Diels-Alder reactions with conceptual DFT analysis and the distortion/interaction model. Organic and Biomolecular Chemistry, 2014, 12, 187-199.	1.5	31
64	Asymmetric construction of substituted pyrrolidines via 1,3-dipolar cycloaddition of azomethine ylides and chiral acrylates derived from biomass. Tetrahedron Letters, 2014, 55, 2394-2397.	0.7	11
65	Theoretical insight into the pyrolytic deformylation of levoglucosenone and isolevoglucosenone. Carbohydrate Research, 2014, 390, 76-80.	1.1	16
66	Successful combination of computationally inexpensive GIAO ¹³ C NMR calculations and artificial neural network pattern recognition: a new strategy for simple and rapid detection of structural misassignments. Organic and Biomolecular Chemistry, 2013, 11, 4847.	1.5	86
67	Cellulose recycling as a source of raw chirality. Pure and Applied Chemistry, 2013, 85, 1683-1692.	0.9	29
68	Recent Applications of Levoglucosenone as Chiral Synthone. Current Organic Synthesis, 2012, 9, 439-459.	0.7	81
69	Application of the Multi-standard Methodology for Calculating ¹ H NMR Chemical Shifts. Journal of Organic Chemistry, 2012, 77, 6059-6065.	1.7	83
70	1,3-Dipolar Cycloaddition Reactions of Azomethine Ylides with a Cellulose-Derived Chiral Enone. A Novel Route for Organocatalysts Development. Organic Letters, 2012, 14, 2556-2559.	2.4	43
71	Experimental and theoretical study of a Diels-Alder reaction between a sugar-derived nitroalkene and cyclopentadiene. Carbohydrate Research, 2011, 346, 460-464.	1.1	8
72	DFT calculations induced a regiochemical outcome revision of the Diels-Alder reaction between levoglucosenone and isoprene. Tetrahedron Letters, 2011, 52, 3116-3119.	0.7	21

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73	Assessing the halogen effect in Diels-Alder reactions involving chiral \hat{I} -halo enones. A combined experimental and DFT computational approach. <i>Tetrahedron Letters</i> , 2011, 52, 4145-4148.	0.7	13
74	A facile microwave-assisted Diels-Alder reaction of vinylboronates. <i>Organic and Biomolecular Chemistry</i> , 2010, 8, 5069.	1.5	30
75	Second generation levoglucosenone-derived chiral auxiliaries. Scope and application in asymmetric Diels-Alder reactions. <i>Tetrahedron</i> , 2009, 65, 3502-3508.	1.0	27
76	An experimental/theoretical approach to determine the optical purity and the absolute configuration of endo- and exo-norborn-5-en-2-ol using mandelate derivatives. <i>Tetrahedron Letters</i> , 2009, 50, 6121-6125.	0.7	10
77	Asymmetric Allylboration Reactions with Soderquist's Chiral 10-Substituted-9-borabicyclo[3.3.2]decanes: A Theoretical Study. <i>Journal of Organic Chemistry</i> , 2009, 74, 3562-3565.	1.7	9
78	A Multi-standard Approach for GIAO ^{13}C NMR Calculations. <i>Journal of Organic Chemistry</i> , 2009, 74, 7254-7260.	1.7	208
79	\hat{I} -Stacking Effect on Levoglucosenone Derived Internal Chiral Auxiliaries. A Case of Complete Enantioselectivity Inversion on the Diels-Alder Reaction. <i>Organic Letters</i> , 2008, 10, 3389-3392.	2.4	35
80	An efficient microwave-assisted green transformation of cellulose into levoglucosenone. Advantages of the use of an experimental design approach. <i>Green Chemistry</i> , 2007, 9, 1137.	4.6	94
81	Exploring structural effects of levoglucosenone derived chiral auxiliaries in asymmetric Diels-Alder cycloadditions. <i>Tetrahedron</i> , 2007, 63, 241-251.	1.0	23
82	Highly Diastereoselective Diels-Alder Reaction Using a Chiral Auxiliary Derived from Levoglucosenone. <i>Organic Letters</i> , 2006, 8, 1487-1490.	2.4	36
83	Microwave-Assisted Regioselective Cycloaddition Reactions between 9-Substituted Anthracenes and Levoglucosenone. <i>Organic Letters</i> , 2006, 8, 5561-5564.	2.4	27
84	A chiral auxiliary derived from levoglucosenone in asymmetric Diels-Alder transformations. <i>Tetrahedron Letters</i> , 2005, 46, 6987-6990.	0.7	15
85	A novel design of a levoglucosenone derived chiral auxiliary. <i>Tetrahedron Letters</i> , 2004, 45, 8203-8206.	0.7	17
86	Computer-Guided Total Synthesis of Natural Products. Recent Examples and Future Perspectives. <i>Journal of the Brazilian Chemical Society</i> , 0, , .	0.6	4
87	Towards the Synthesis of Highly Hindered Pyrrolidines by Intramolecular AAC Click Reactions: What Can Be Learned from DFT Calculations?. <i>European Journal of Organic Chemistry</i> , 0, , .	1.2	1