Mate Erdelyi

List of Publications by Year
in descending order

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132 papers	3,902 citations	136950 32 h-index	149698 56 g-index
142 all docs	142 docs citations	142 times ranked	3464 citing authors

#	Article	IF	Citations
1	Halogen bonding in solution. Chemical Society Reviews, 2012, 41, 3547.	38.1	435
2	Rapid Homogeneous-Phase Sonogashira Coupling Reactions Using Controlled Microwave Heating. Journal of Organic Chemistry, 2001, 66, 4165-4169.	3.2	184
3	Symmetric Halogen Bonding Is Preferred in Solution. Journal of the American Chemical Society, 2012, 134, 5706-5715.	13.7	159
4	Counterion influence on the Nâ€“Iâ€“N halogen bond. Chemical Science, 2015, 6, 3746-3756.	7.4	100
5	Solution Conformations Shed Light on PROTAC Cell Permeability. ACS Medicinal Chemistry Letters, 2021, 12, 107-114.	2.8	99
6	Halogen bonds of halonium ions. Chemical Society Reviews, 2020, 49, 2688-2700.	38.1	97
7	Substituent Effects on the [Nâ€“Iâ€“N]⁺ Halogen Bond. Journal of the American Chemical Society, 2016, 138, 9853-9863.	13.7	89
8	Halogen bond symmetry: the Nâ€“Xâ€“N bond. Journal of Physical Organic Chemistry, 2015, 28, 226-233.	1.9	78
9	Solution Conformations Explain the Chameleonic Behaviour of Macrocyclic Drugs. Chemistry - A European Journal, 2020, 26, 5231-5244.	3.3	77
10	Stereochemistry of Î²-Deuterium Isotope Effects on Amine Basicity. Journal of the American Chemical Society, 2005, 127, 9641-9647.	13.7	76
11	Symmetry of [Nâ€“Xâ€“N]⁺halogen bonds in solution. Chemical Communications, 2012, 48, 1458-1460.	4.1	76
12	Conformational Sampling of Macrocyclic Drugs in Different Environments: Can We Find the Relevant Conformations?. ACS Omega, 2018, 3, 11742-11757.	3.5	71
13	Halogen bonding in solution: NMR spectroscopic approaches. Coordination Chemistry Reviews, 2020, 407, 213147.	18.8	67
14	Solvent effects on halogen bond symmetry. CrystEngComm, 2013, 15, 3087.	2.6	66
15	The nature of [Nâ€“Clâ€“N]⁺and [Nâ€“Fâ€“N]⁺halogen bonds in solution. Chemical Science, 2014, 5, 3226-3233.	7.4	66
16	Halogen Bonding Helicates Encompassing Iodonium Cations. Angewandte Chemie - International Edition, 2019, 58, 9012-9016.	13.8	66
17	Halogen Bonding: A Powerful Tool for Modulation of Peptide Conformation. Biochemistry, 2017, 56, 3265-3272.	2.5	65
18	NMReDATA, a standard to report the NMR assignment and parameters of organic compounds. Magnetic Resonance in Chemistry, 2018, 56, 703-715.	1.9	61

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19	Rapid Microwave Promoted Sonogashira Coupling Reactions on Solid Phase. Journal of Organic Chemistry, 2003, 68, 6431-6434.	3.2	60
20	Dynamics of the Glycosidic Bond: Conformational Space of Lactose. Chemistry - A European Journal, 2011, 17, 9368-9376.	3.3	58
21	Halogen Bond Asymmetry in Solution. Journal of the American Chemical Society, 2018, 140, 13503-13513.	13.7	57
22	Disulfide Cyclized Tripeptide Analogues of Angiotensin IV as Potent and Selective Inhibitors of Insulin-Regulated Aminopeptidase (IRAP). Journal of Medicinal Chemistry, 2010, 53, 8059-8071.	6.4	55
23	Paramagnetic Lanthanide Tagging for NMR Conformational Analyses of Nâ€Linked Oligosaccharides. Chemistry - A European Journal, 2011, 17, 9280-9282.	3.3	54
24	Carbonâ€™s Three-Center, Four-Electron Tetrel Bond, Treated Experimentally. Journal of the American Chemical Society, 2018, 140, 17571-17579.	13.7	53
25	Conformational Preferences of Natural and C3-Modified Epothilones in Aqueous Solution. Journal of Medicinal Chemistry, 2008, 51, 1469-1473.	6.4	49
26	Potent Macrocyclic Inhibitors of Insulin-Regulated Aminopeptidase (IRAP) by Olefin Ring-Closing Metathesis. Journal of Medicinal Chemistry, 2011, 54, 3779-3792.	6.4	44
27	The Interaction Modes of Haloimidazolium Salts in Solution. Chemistry - A European Journal, 2018, 24, 3464-3473.	3.3	40
28	Symmetry of three-center, four-electron bonds. Chemical Science, 2020, 11, 7979-7990.	7.4	38
29	Halogen Bonding in Solution. Topics in Current Chemistry, 2014, 359, 49-76.	4.0	37
30	A New Tool in Peptide Engineering: A Photoswitchable Stilbene-type Î²-Hairpin Mimetic. Chemistry - A European Journal, 2006, 12, 403-412.	3.3	36
31	Flemingins Gâ€“O, Cytotoxic and Antioxidant Constituents of the Leaves of Flemingia grahamiana. Journal of Natural Products, 2014, 77, 2060-2067.	3.0	35
32	Paramagnetic Ligand Tagging To Identify Protein Binding Sites. Journal of the American Chemical Society, 2015, 137, 11391-11398.	13.7	34
33	Rotenoids, Flavonoids, and Chalcones from the Root Bark of Millettia usaramensis. Journal of Natural Products, 2015, 78, 2932-2939.	3.0	33
34	Naphthalene Derivatives from the Roots of Pentas parvifolia and Pentas bussei. Journal of Natural Products, 2016, 79, 2181-2187.	3.0	32
35	Predicting the Permeability of Macrocycles from Conformational Sampling â€“ Limitations of Molecular Flexibility. Journal of Pharmaceutical Sciences, 2021, 110, 301-313.	3.3	31
36	A big hello to halogen bonding. Nature Chemistry, 2014, 6, 762-764.	13.6	30

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37	Intramolecular Halogen Bonding in Solution: ¹⁵N, ¹³C, and ¹⁹F NMR Studies of Temperature and Solvent Effects. European Journal of Organic Chemistry, 2015, 2015, 1685-1695.	2.4	29
38	Efficient Isotope Editing of Proteins for Site-Directed Vibrational Spectroscopy. Journal of the American Chemical Society, 2016, 138, 2312-2318.	13.7	29
39	Solvent effects on ¹⁵N NMR coordination shifts. Magnetic Resonance in Chemistry, 2013, 51, 46-53.	1.9	28
40	Isoflavones and Rotenoids from the Leaves of Millettia oblata ssp. teitensis. Journal of Natural Products, 2017, 80, 2060-2066.	3.0	28
41	Chemistry and folding of photomodulable peptides â€“ stilbene and thioaurone-type candidates for conformational switches. Organic and Biomolecular Chemistry, 2008, 6, 4356.	2.8	27
42	Constituents of the Roots and Leaves of Ekebergia capensis and Their Potential Antiplasmodial and Cytotoxic Activities. Molecules, 2014, 19, 14235-14246.	3.8	27
43	Polyoxygenated Cyclohexenes and Other Constituents of Cleistochlamys kirkii Leaves. Journal of Natural Products, 2017, 80, 114-125.	3.0	27
44	AT2-Selective Angiotensin II Analogues Containing Tyrosine-Functionalized 5,5-Bicyclic Thiazabicycloalkane Dipeptide Mimetics. Journal of Medicinal Chemistry, 2004, 47, 6009-6019.	6.4	26
45	Flavonoids from Erythrina schliebenii. Journal of Natural Products, 2017, 80, 377-383.	3.0	26
46	Application of the Halogen Bond in Protein Systems. Biochemistry, 2017, 56, 2759-2761.	2.5	26
47	The¹⁵N NMR chemical shift in the characterization of weak halogen bonding in solution. Faraday Discussions, 2017, 203, 333-346.	3.2	25
48	Dynamic Chirality in the Mechanism of Action of Allosteric CD36 Modulators of Macrophage-Driven Inflammation. Journal of Medicinal Chemistry, 2019, 62, 11071-11079.	6.4	25
49	Catalytic Activity of trans-Bis(pyridine)gold Complexes. Journal of the American Chemical Society, 2020, 142, 6439-6446.	13.7	25
50	Antiplasmodial Quinones fromPentas longifloraandPentas lanceolata. Planta Medica, 2012, 78, 31-35.	1.3	24
51	One-Bond Câ^'C Coupling Constants in Ethers Are Not Primarily Determined bynâ^'Ïƒ* Delocalization. Journal of the American Chemical Society, 2005, 127, 6168-6169.	13.7	23
52	Antiplasmodial and cytotoxic activities of the constituents of Turraea robusta and Turraea nilotica. Journal of Ethnopharmacology, 2015, 174, 419-425.	4.1	23
53	Asymmetric [Nâ€“Iâ€“N]⁺halonium complexes in solution?. Chemical Communications, 2020, 56, 14431-14434.	4.1	23
54	Insight into Î²-hairpin stability: a structural and thermodynamic study of diastereomeric Î²-hairpin mimeticsElectronic supplementary information (ESI) available: temperature and concentration-dependent chemical shifts and melting curves of the investigated molecules in different solvents and details of the X-ray analysis. See http://www.rsc.org/suppdata/nj/b1/b111241d/. New Journal of Chemistry, 2002, 26, 834-843.	2.8	22

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55	Flexibility is important for inhibition of the MDM2/p53 proteinâ€“protein interaction by cyclic Î²-hairpins. Organic and Biomolecular Chemistry, 2016, 14, 10386-10393.	2.8	22
56	Mechanism of Au(III)-Mediated Alkoxycyclization of a 1,6-Enyne. Journal of the American Chemical Society, 2019, 141, 18221-18229.	13.7	22
57	Anthraquinones of the Roots of Pentas micrantha. Molecules, 2013, 18, 311-321.	3.8	21
58	Halogen Bonding: An Odd Chemistry?. Chemical Record, 2021, 21, 1252-1257.	5.8	21
59	Cytotoxic Quinones from the Roots of Aloe dawei. Molecules, 2014, 19, 3264-3273.	3.8	19
60	Cell Permeability of Isomeric Macrocycles: Predictions and NMR Studies. ACS Medicinal Chemistry Letters, 2021, 12, 983-990.	2.8	17
61	NMR Determination of the Binding Constant of Ionic Species: A Caveat. Journal of Organic Chemistry, 2018, 83, 10881-10886.	3.2	16
62	A Chemical Biology Approach to Understanding Molecular Recognition of Lipidâ€…II by Nisin(1â€“12): Synthesis and NMR Ensemble Analysis of Nisin(1â€“12) and Analogues. Chemistry - A European Journal, 2019, 25, 14572-14582.	3.3	16
63	Halogen Bonding Helicates Encompassing Iodonium Cations. Angewandte Chemie, 2019, 131, 9110-9114.	2.0	16
64	Oxygenated Cyclohexene Derivatives and Other Constituents from the Roots of Monanthotaxis trichocarpa. Journal of Natural Products, 2020, 83, 210-215.	3.0	16
65	Busseihydroquinones Aâ€“D from the Roots of Pentas bussei. Journal of Natural Products, 2012, 75, 1299-1304.	3.0	15
66	Solvent Effects on Nitrogen Chemical Shifts. Annual Reports on NMR Spectroscopy, 2015, 86, 73-210.	1.5	15
67	Antibacterial activity of 2-amino-3-cyanopyridine derivatives. Mendeleev Communications, 2020, 30, 498-499.	1.6	15
68	Interplaying factors for the formation of photoswitchable Î²â€hairpins: the advantage of a flexible switch. Journal of Peptide Science, 2009, 15, 107-113.	1.4	14
69	The Binding Mode of Side Chainâ€•and C3â€Modified Epothilones to Tubulin. ChemMedChem, 2010, 5, 911-920.	3.2	14
70	Insight into Î²-Hairpin Stability: Interstrand Hydrogen Bonding. Synlett, 2013, 24, 2407-2410.	1.8	14
71	A New Benzopyranyl Cadenane Sesquiterpene and Other Antiplasmodial and Cytotoxic Metabolites from Cleistochlamys kirkii. Molecules, 2019, 24, 2746.	3.8	14
72	Halogen Bond of Halonium Ions: Benchmarking DFT Methods for the Description of NMR Chemical Shifts. Journal of Chemical Theory and Computation, 2020, 16, 7690-7701.	5.3	14

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73	The Influence of Secondary Interactions on the [Nâ^'Iâ^'N]⁺ Halogen Bond. Chemistry - A European Journal, 2021, 27, 13748-13756.	3.3	14
74	Synthesis, characterization and computational evaluation of bicyclooctadienes towards molecular solar thermal energy storage. Chemical Science, 2022, 13, 834-841.	7.4	14
75	Proline-mediated formation of novel chroman-4-one tetrahydropyrimidines. Tetrahedron, 2012, 68, 7035-7040.	1.9	13
76	N-Cinnamoyltetraketide Derivatives from the Leaves of Toussaintia orientalis. Journal of Natural Products, 2015, 78, 2045-2050.	3.0	13
77	Four Prenylflavone Derivatives with Antiplasmodial Activities from the Stem of Tephrosia purpurea subsp. leptostachya. Molecules, 2017, 22, 1514.	3.8	13
78	Conformation of the Macrocyclic Drug Lorlatinib in Polar and Nonpolar Environments: A MD Simulation and NMR Study. ACS Omega, 2019, 4, 22245-22250.	3.5	13
79	An Alternative Approach to the Hydrated Imidazoline Ring Expansion (HIRE) of Diareneâ€Fused [1.4]Oxazepines. European Journal of Organic Chemistry, 2020, 2020, 5664-5676.	2.4	13
80	Rapid Microwave-Assisted Solid Phase Peptide Synthesis. Synthesis, 2002, 2002, 1592-1596.	2.3	12
81	Solid-Phase Methods for the Microwave-Assisted Synthesis of Heterocycles. Topics in Heterocyclic Chemistry, 2006, , 79-128.	0.2	12
82	Selenium Accumulating Leafy Vegetables Are a Potential Source of Functional Foods. International Journal of Food Science, 2015, 2015, 1-8.	2.0	12
83	Pterocarpans and isoflavones from the root bark of Millettia micans and of Millettia dura. Phytochemistry Letters, 2017, 21, 216-220.	1.2	12
84	A Meroisoprenoid, Heptenolides, and C-Benzylated Flavonoids from Sphaerocoryne gracilis ssp. gracilis. Journal of Natural Products, 2020, 83, 316-322.	3.0	12
85	NMReDATA: Tools and applications. Magnetic Resonance in Chemistry, 2021, 59, 792-803.	1.9	12
86	Halogen Bond Activation in Gold Catalysis. ACS Catalysis, 2022, 12, 7210-7220.	11.2	12
87	Protonation-triggered conformational modulation of an N,Nâ€²-dialkylbispidine: first observation of the elusive boatâ€“boat conformer. Organic and Biomolecular Chemistry, 2013, 11, 6292.	2.8	11
88	Phytoconstituents with Radical Scavenging and Cytotoxic Activities from Diospyros shimbaensis. Diseases (Basel, Switzerland), 2016, 4, 3.	2.5	11
89	Three Chalconoids and a Pterocarpene from the Roots of Tephrosia aequilata. Molecules, 2017, 22, 318.	3.8	11
90	Assessing the Ability of Spectroscopic Methods to Determine the Difference in the Folding Propensities of Highly Similar Î²-Hairpins. ACS Omega, 2017, 2, 508-516.	3.5	10

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91	Boronic ester-linked macrocyclic lipopeptides as serine protease inhibitors targeting Escherichia coli type I signal peptidase. European Journal of Medicinal Chemistry, 2018, 157, 1346-1360.	5.5	10
92	P,N-Chelated Gold(III) Complexes: Structure and Reactivity. Inorganic Chemistry, 2021, 60, 2847-2855.	4.0	10
93	Metallo-Î²-Lactamase Inhibitor Phosphonamidate Monoesters. ACS Omega, 2022, 7, 4550-4562.	3.5	10
94	Do 2-coordinate iodine(<scp>i</scp>) and silver(<scp>i</scp>) complexes form nucleophilic iodonium interactions (NIIs) in solution?. Chemical Communications, 2022, 58, 4977-4980.	4.1	9
95	Halogen-bonded halogen(I) ion complexes. , 2023, , 586-601.		9
96	Antiplasmodial and antileishmanial flavonoids from Mundulea sericea. FÃ¬toterapÃ¬Ã¢, 2021, 149, 104796.	2.2	8
97	Nonâ€uniform sampling for NOESY? A case study on spiramycin. Magnetic Resonance in Chemistry, 2021, 59, 723-737.	1.9	8
98	Sulfur Oxidation Increases the Rate of HIRE-Type [1.4]Thiazepinone Ring Expansion and Influences the Conformation of a Medium-Sized Heterocyclic Scaffold. Journal of Organic Chemistry, 2021, 86, 5778-5791.	3.2	8
99	Probing Halogen Bonds by Scalar Couplings. Journal of the American Chemical Society, 2021, 143, 10695-10699.	13.7	8
100	cyclo(Î²-Asp-Î²3-hVal-Î²3-hLys) - Solid-Phase Synthesis and Solution Structure of a Water SolubleÎ²-Tripeptide. Preliminary Communication. Helvetica Chimica Acta, 2004, 87, 2735-2741.	1.6	7
101	Crystal Structures and Cytotoxicity of ent-Kaurane-Type Diterpenoids from Two Aspilia Species. Molecules, 2018, 23, 3199.	3.8	7
102	Oâ€“Iâ€“O halogen bond of halonium ions. Chemical Communications, 2020, 56, 9671-9674.	4.1	7
103	Secoiridoids and Iridoids from Morinda asteroscepa. Journal of Natural Products, 2020, 83, 2641-2646.	3.0	7
104	Pushing the Limits of Characterising a Weak Halogen Bond in Solution. Chemistry - A European Journal, 2022, 28, .	3.3	7
105	N-Arylation of Protected Azamacrocycles. Synthesis, 2013, 45, 777-784.	2.3	6
106	Prenylated Flavonoids from the Roots of Tephrosia rhodesica. Journal of Natural Products, 2020, 83, 2390-2398.	3.0	6
107	Solution-State Preorganization of Cyclic Î²-Hairpin Ligands Determines Binding Mechanism and Affinities for MDM2. Journal of Chemical Information and Modeling, 2021, 61, 2353-2367.	5.4	6
108	Modulating photoswitch performance with halogen, coordinative and hydrogen bonding: a comparison of relative bond strengths. Chemical Communications, 2021, 57, 6261-6263.	4.1	6

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109	Mapping the sevofluraneâ€binding sites of calmodulin. Pharmacology Research and Perspectives, 2014, 2, 5.	2.4	5
110	The halogen bond in solution: general discussion. Faraday Discussions, 2017, 203, 347-370.	3.2	5
111	Halogen Bonding: From Fundamentals to Applications. ChemPlusChem, 2021, 86, 1229-1230.	2.8	5
112	Halogen Bonds of Iodonium Ions: A World Dissimilar to Silver Coordination. Bulletin of the Chemical Society of Japan, 2021, 94, 191-196.	3.2	5
113	Biflavanones, Chalconoids, and Flavonoid Analogues from the Stem Bark of Ochna holstii. Journal of Natural Products, 2021, 84, 364-372.	3.0	5
114	Oxygenated Cyclohexene Derivatives from the Stem and Root Barks of Uvaria pandensis. Journal of Natural Products, 2021, 84, 3080-3089.	3.0	5
115	Are bis(pyridine)iodine(<scp>i</scp>) complexes applicable for asymmetric halogenation?. Organic and Biomolecular Chemistry, 2021, 19, 8307-8323.	2.8	4
116	Antibacterial and cytotoxic prenylated dihydrochalcones from Eriosema montanum. FÃ¬toterapÃ¬Ã¢, 2021, 149, 104809.	2.2	4
117	2-(p-Hydroxybenzyl)indoles - Side Products Formed Upon Cleavage of Indole Derivatives from Carboxylated Wang Polymer - an NMR Study. Molecules, 2003, 8, 728-734.	3.8	3
118	Photochemically Induced Aryl Azide Rearrangement: Solution NMR Spectroscopic Identification of the Rearrangement Product. Journal of Organic Chemistry, 2017, 82, 1812-1816.	3.2	3
119	Introduction to the special issue on halogen bonding. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2017, 73, 135-135.	1.1	3
120	Employing complementary spectroscopies to study the conformations of an epimeric pair of side-chain stapled peptides in aqueous solution. RSC Advances, 2021, 11, 4200-4208.	3.6	3
121	Antibacterial and cytotoxic biflavonoids from the root bark of Ochna kirkii. FÃ¬toterapÃ¬Ã¢, 2021, 151, 104857.	2.2	3
122	NMR Backbone Assignment of VIM-2 and Identification of the Active Enantiomer of a Potential Inhibitor. ACS Medicinal Chemistry Letters, 2022, 13, 257-261.	2.8	3
123	The impact of interchain hydrogen bonding on Î² â€hairpin stability is readily predicted by molecular dynamics simulation. Biopolymers, 2015, 104, 703-706.	2.4	2
124	Binding of 2-(Triazolylthio)acetamides to Metallo-Î²-lactamase CcrA Determined with NMR. ACS Omega, 2020, 5, 21570-21578.	3.5	2
125	Antiviral iridoid glycosides from Clerodendrum myricoides. FÃ¬toterapÃ¬Ã¢, 2021, 155, 105055.	2.2	2
126	Polyoxygenated cyclohexene derivatives and flavonoids from the leaves of Uvaria pandensis. FÃ¬toterapÃ¬Ã¢, 2022, 158, 105170.	2.2	2

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127	The General Anaesthetic Binding Site of Calmodulin Disrupts Ryanodine Peptide Binding. Biophysical Journal, 2013, 104, 445a.	0.5	1
128	Antiplasmodial, Antimicrobial and Cytotoxic Activities of Extracts from Selected Medicinal Plants Growing in Tanzania. Journal of Biologically Active Products From Nature, 2020, 10, 165-176.	0.3	1
129	Development of a Stilbene-type Photoswitchable Î²-Hairpin Mimetic. , 2006, , 647-648.		0
130	Frontispiz: Halogen Bonding Helicates Encompassing Iodonium Cations. Angewandte Chemie, 2019, 131, .	2.0	0
131	Frontispiece: Halogen Bonding Helicates Encompassing Iodonium Cations. Angewandte Chemie - International Edition, 2019, 58, .	13.8	0
132	A new Î²-hydroxydihydrochalcone from Tephrosia uniflora, and the revision of three Î²-hydroxydihydrochalcones to flavanones. FÃ¬toterapÃ¬Ã¢, 2022, 158, 105166.	2.2	0