

Paul J Gates

List of Publications by Year in descending order

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95
papers

2,441
citations

186265

28
h-index

233421

45
g-index

106
all docs

106
docs citations

106
times ranked

2975
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalytic Dehydrocoupling/Dehydrogenation of <i>N</i> -Methylamine-Borane and Ammonia-Borane: Synthesis and Characterization of High Molecular Weight Polyaminoboranes. <i>Journal of the American Chemical Society</i> , 2010, 132, 13332-13345.	13.7	280
2	Oxidative Addition, Transmetalation, and Reductive Elimination at a 2,2'-Bipyridyl-Ligated Gold Center. <i>Journal of the American Chemical Society</i> , 2018, 140, 4440-4445.	13.7	95
3	From Ligand to Complexes: Inhibition of Human Immunodeficiency Virus Type 1 Integrase by β -Diketo Acid Metal Complexes. <i>Journal of Medicinal Chemistry</i> , 2006, 49, 4248-4260.	6.4	84
4	Catalytic Conversion of Ethanol to <i>n</i> -Butanol Using Ruthenium Pincer Ligand Complexes. <i>ACS Catalysis</i> , 2015, 5, 5822-5826.	11.2	81
5	Mechanochemical Solvent-Free Catalytic C-H Methylation. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 6660-6666.	13.8	78
6	Ru-Catalysed C-H Arylation of Indoles and Pyrroles with Boronic Acids: Scope and Mechanistic Studies. <i>Chemistry - A European Journal</i> , 2015, 21, 5380-5386.	3.3	77
7	Generation of aminoborane monomers R_2NiBH_2 from amine-boronium cations $[R_2NH_2BH_2]^+$: metal catalyst-free formation of polyaminoboranes at ambient temperature. <i>Chemical Communications</i> , 2014, 50, 12146-12149.	4.1	67
8	Highly Tin-Selective Stille Coupling: Synthesis of a Polymer Containing a Stannole in the Main Chain. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 12916-12920.	13.8	59
9	A theoretical and mass spectrometry study of the fragmentation of mycosporine-like amino acids. <i>International Journal of Mass Spectrometry</i> , 2008, 273, 11-19.	1.5	54
10	Main-chain metallopolymers at the static-dynamic boundary based on nickelocene. <i>Nature Chemistry</i> , 2017, 9, 743-750.	13.6	54
11	The fragmentation mechanism of five-membered lactones by electrospray ionisation tandem mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2004, 232, 271-276.	1.5	53
12	Fragmentation studies on monensin A and B by accurate-mass electrospray tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2002, 16, 414-420.	1.5	52
13	Boryl (Hetero)aryne Precursors as Versatile Arylation Reagents: Synthesis through C-H Activation and Orthogonal Reactivity. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11765-11769.	13.8	51
14	Chemoselective Cross-Coupling Reactions with Differentiation between Two Nucleophilic Sites on a Single Aromatic Substrate. <i>Organic Letters</i> , 2012, 14, 5644-5647.	4.6	50
15	Fragmentation studies on monensin A by sequential electrospray mass spectrometry. <i>Analyst</i> , 2002, 127, 503-506.	3.5	49
16	Ru-catalysed C-H silylation of unprotected gramines, tryptamines and their congeners. <i>Chemical Communications</i> , 2016, 52, 5868-5871.	4.1	49
17	Identification using LC-MS/MS of co-metabolites in the biosynthesis of the polyketide toxin mycolactone by a clinical isolate of <i>Mycobacterium ulcerans</i> Electronic supplementary information (ESI) available: Experimental procedures and ESI-CID-MS/MS spectra of mycolactone and the five co-metabolites; MS3 spectrum of <i>m/z</i> 661 from the MS/MS of <i>m/z</i> 749; scheme showing the losses of mass 88 (C ₄ H ₈ O ₂) during the MS/MS of <i>m/z</i> 749 and the MS ₃ of <i>m/z</i> 661. See http://www.rsc.org/suppdata/cc/b3/b308163j/ . <i>Chemical Communications</i> , 2003, , 2822.	4.1	47
18	Electrospray ionisation Fourier-transform ion cyclotron resonance mass spectrometry of dynamic combinatorial libraries. , 2000, 14, 44-48.		46

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19	Sesquiterpene Lactones from <i>Lychnophora ericoides</i> . <i>Journal of Natural Products</i> , 2003, 66, 693-695.	3.0	45
20	New chemical evidence for the ability to generate radical molecular ions of polyenes from ESI and HR-MALDI mass spectrometry. <i>Analyst, The</i> , 2004, 129, 1223.	3.5	44
21	A simple modification of a silicic acid lipid fractionation protocol to eliminate free fatty acids from glycolipid and phospholipid fractions. <i>Journal of Microbiological Methods</i> , 2009, 78, 249-254.	1.6	40
22	Diversely halogenated spiropyran - Useful synthetic building blocks for a versatile class of molecular switches. <i>Dyes and Pigments</i> , 2017, 136, 292-301.	3.7	39
23	A study of the effect of pH, solvent system, cone potential and the addition of crown ethers on the formation of the monensin protonated parent ion in electrospray mass spectrometry. <i>Analyst, The</i> , 2001, 126, 1630-1632.	3.5	37
24	Dual Selectivity: Electrophile and Nucleophile Selective Cross-Coupling Reactions on a Single Aromatic Substrate. <i>Organic Letters</i> , 2013, 15, 4666-4669.	4.6	36
25	Structural elucidation studies of erythromycins by electrospray tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1999, 13, 242-246.	1.5	35
26	Characterisation of Flavonoid Aglycones by Negative Ion Chip-Based Nanospray Tandem Mass Spectrometry. <i>International Journal of Analytical Chemistry</i> , 2012, 2012, 1-7.	1.0	33
27	Fragmentation studies on lasalocid acid by accurate mass electrospray mass spectrometry. <i>Analyst, The</i> , 2002, 127, 1224-1227.	3.5	31
28	High prestige Royal Purple dyed textiles from the Bronze Age royal tomb at Qatna, Syria. <i>Antiquity</i> , 2009, 83, 1109-1118.	1.0	31
29	Nitro-, Azo-, and Amino Derivatives of Ebselen: Synthesis, Structure, and Cytoprotective Effects. <i>Journal of Organic Chemistry</i> , 2017, 82, 313-321.	3.2	31
30	Mechanochemical synthesis of (hetero)aryl Au complexes. <i>Green Chemistry</i> , 2020, 22, 5648-5655.	9.0	31
31	Regenerable Radical-Trapping Tellurobistocopherol Antioxidants. <i>Journal of Organic Chemistry</i> , 2016, 81, 12540-12544.	3.2	28
32	Structural elucidation studies of erythromycins by electrospray tandem mass spectrometry II. , 1999, 13, 1650-1656.		27
33	Hoch Zinnselektive Stille-Kupplung: Polymersynthese mit einem Stannol in der Hauptkette. <i>Angewandte Chemie</i> , 2014, 126, 13130-13134.	2.0	26
34	Fragmentation studies on tetronasin by accurate-mass electrospray tandem mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 325-335.	2.8	25
35	Cyclodextrin ^π piroxicam inclusion complexes: analyses by mass spectrometry and molecular modelling. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1997, 165-166, 523-531.	1.8	23
36	Negative ion chip-based TM nanospray tandem mass spectrometry for the analysis of flavonoids in glandular trichomes of <i>Lychnophora ericoides</i> Mart. (Asteraceae). <i>Rapid Communications in Mass Spectrometry</i> , 2008, 22, 3802-3808.	1.5	22

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37	Synthesis of <i>N</i> -Vinylloxazolidinones and Morpholines from Amino Alcohols and Vinylsulfonium Salts: Analysis of the Outcome's Dependence on the Protecting Group by Nanospray Mass Spectrometry. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 160-166.	2.4	22
38	Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry of Dextran and Dextrin Derivatives. <i>European Journal of Mass Spectrometry</i> , 2003, 9, 61-70.	1.0	21
39	Tin-Functionalized Azobenzenes as Nucleophiles in Stille Cross-Coupling Reactions. <i>Journal of Organic Chemistry</i> , 2014, 79, 1719-1728.	3.2	20
40	Mechanochemical Solvent-Free Catalytic C-H Methylation. <i>Angewandte Chemie</i> , 2021, 133, 6734-6740.	2.0	19
41	Structure elucidation and stereoselective total synthesis of pavettamine, the causal agent of gousiekte. <i>Tetrahedron</i> , 2010, 66, 2026-2036.	1.9	18
42	Alkyltelluro Substitution Improves the Radical-Trapping Capacity of Aromatic Amines. <i>Chemistry - A European Journal</i> , 2016, 22, 12891-12903.	3.3	18
43	Differential ionisation of natural antioxidant polyenes in electrospray and nanospray mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 3842-3848.	1.5	17
44	High-Yield Lithiation of Azobenzenes by Tin-Lithium Exchange. <i>Chemistry - A European Journal</i> , 2015, 21, 11165-11173.	3.3	17
45	Reinvestigation of the fragmentation of protonated carotenoids by electrospray ionization and nanospray tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 1540-1548.	1.5	17
46	Electrospray ionization tandem mass spectrometry analysis of isopimarane diterpenes from Velloziaceae. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 61-68.	1.5	17
47	Arynes and Their Precursors from Arylboronic Acids via Catalytic C-H Silylation. <i>Journal of Organic Chemistry</i> , 2019, 84, 5863-5871.	3.2	17
48	Mechanism for the elimination of aromatic molecules from polyenes in tandem mass spectrometry. <i>Chemical Communications</i> , 2006, , 4110.	4.1	16
49	A Fragmentation study of di-acidic mycosporine-like amino acids in electrospray and nanospray mass spectrometry. <i>Journal of the Brazilian Chemical Society</i> , 2009, 20, 1625-1631.	0.6	16
50	Electrospray MS-based characterization of β -carbolines – mutagenic constituents of thermally processed meat. <i>Molecular Nutrition and Food Research</i> , 2010, 54, 433-439.	3.3	15
51	Evidence for gas-phase redox chemistry inducing novel fragmentation in a complex natural product. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 358.	2.8	14
52	Investigation of colloidal graphite as a matrix for matrix-assisted laser desorption/ionisation mass spectrometry of low molecular weight analytes. <i>Journal of Mass Spectrometry</i> , 2016, 51, 491-503.	1.6	14
53	Catalytic and highly regenerable aminic organoselenium antioxidants with cytoprotective effects. <i>Organic and Biomolecular Chemistry</i> , 2021, 19, 2015-2022.	2.8	14
54	Nucleophile-Selective Cross-Coupling Reactions with Vinyl and Alkynyl Bromides on a Dinucleophilic Aromatic Substrate. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 2498-2502.	2.4	13

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55	Letter: Radical Ion and Protonated Molecule Formation with Retinal in Electrospray and Nanospray. <i>European Journal of Mass Spectrometry</i> , 2006, 12, 71-74.	1.0	12
56	<i>In vitro</i> metabolism of monensin A: microbial and human liver microsomes models. <i>Xenobiotica</i> , 2014, 44, 326-335.	1.1	12
57	Chain-Breaking Phenolic 2,3-Dihydrobenzo[<i>b</i>]selenophene Antioxidants: Proximity Effects and Regeneration Studies. <i>Chemistry - A European Journal</i> , 2017, 23, 15080-15088.	3.3	12
58	Substituent Effects in Chain-Breaking Aryltellurophenol Antioxidants. <i>Chemistry - A European Journal</i> , 2018, 24, 3520-3527.	3.3	12
59	Structural elucidation studies on 14- and 16-membered macrolide aglycones by accurate-mass electrospray sequential mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2002, 13, 862-874.	2.8	11
60	Linear and star architecture methacrylate-functionalised PDMS. <i>Materials Today Communications</i> , 2015, 3, 122-129.	1.9	11
61	Regenerable Thiophenolic Radical-Trapping Antioxidants. <i>Organic Letters</i> , 2015, 17, 6162-6165.	4.6	10
62	Identification of β -carotene oxidation products produced by bleaching clay using UPLC-ESI-MS/MS. <i>Food Chemistry</i> , 2021, 353, 129455.	8.2	10
63	A study of the application of graphite MALDI to the analysis of short-chain polyethylene glycols. <i>Polymer Chemistry</i> , 2021, 12, 439-448.	3.9	9
64	Sodium monensin dihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2003, 59, m1050-m1052.	0.2	8
65	Novel gas-phase ion-molecule aromatic nucleophilic substitution in β -carboline. <i>Chemical Communications</i> , 2003, , 72-73.	4.1	8
66	New reactivity at the silicon bridge in sila[1]ferrocenophanes. <i>Dalton Transactions</i> , 2018, 47, 2759-2768.	3.3	8
67	Mild and Efficient Synthesis of Diverse OrganoAu I π -Complexes in Green Solvents. <i>ChemSusChem</i> , 2020, 13, 2032-2037.	6.8	8
68	The effect of ruthenium(III) chloride on the formation of protonated parent ions in electrospray mass spectrometry. <i>Chemical Communications</i> , 2003, , 2732.	4.1	7
69	Jacobsen Catalyst as a Cytochrome P450 Biomimetic Model for the Metabolism of Monensin A. <i>BioMed Research International</i> , 2014, 2014, 1-8.	1.9	7
70	Synthesis of poly(thiophene-alt-pyrrole) from a difunctionalized thienylpyrrole by Kumada polycondensation. <i>Tetrahedron</i> , 2015, 71, 5399-5406.	1.9	7
71	Methodologies for the airbrush application of MALDI matrices. <i>European Journal of Mass Spectrometry</i> , 2018, 24, 89-95.	1.0	7
72	Biomimetic oxidation studies of monensin A catalyzed by metalloporphyrins: Identification of hydroxyl derivative product by electrospray tandem mass spectrometry. <i>Revista Brasileira De Farmacognosia</i> , 2013, 23, 621-629.	1.4	6

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73	A computational and experimental study of the fragmentation of L-leucine, L-isoleucine and L-allo-isoleucine under collision-induced dissociation tandem mass spectrometry. <i>Analyst, The</i> , 2020, 145, 6632-6638.	3.5	6
74	Influence of the alkali metal cation on the fragmentation of monensin in ESI-MS/MS. <i>BJPS: Brazilian Journal of Pharmaceutical Sciences</i> , 2006, 42, 363.	0.5	5
75	BN-Substitution in Dithienylpyrenes Prevents Excimer Formation in Solution and in the Solid State. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4563-4576.	3.1	5
76	Novel porphyrin-quinazoline conjugates via the Diels-Alder reaction. <i>Tetrahedron</i> , 2003, 59, 7907-7913.	1.9	4
77	The synthesis of mycobacterial dimycoloyl diarabinoglycerol based on defined synthetic mycolic acids. <i>Chemistry and Physics of Lipids</i> , 2019, 221, 207-218.	3.2	4
78	Gas-phase fragmentation reactions of protonated benzofuran- and dihydrobenzofuran-type neolignans investigated by accurate mass electrospray ionization tandem mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2019, 54, 35-46.	1.6	4
79	A new supramolecular organic-inorganic adduct: $\{[Eu(CH_3OH)(H_2O)_8]_2[Eu(H_2O)_8][PW_{12}O_{40}]_3\} \cdot 8(C_{14}H_{20}O_5) \cdot 2(C_{28}H_{40}O_{10}) \cdot 6(CH_3OH) \cdot 6(H_2O)$. <i>Journal of Molecular Structure</i> , 2011, 989, 80-85.		3
80	Atmospheric pressure chemical ionisation mass spectrometry for the routine analysis of low molecular weight analytes. <i>European Journal of Mass Spectrometry</i> , 2021, 27, 13-28.	1.0	3
81	Fragmentation Studies of Monensin A and B in Negative Electrospray and Nanospray Tandem Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2007, 13, 191-198.	1.0	2
82	Flavone as a novel matrix for the MALDI analysis of lanthanide and transition metal salts. <i>Journal of Mass Spectrometry</i> , 2020, 55, e4609.	1.6	2
83	<i>Mycobacterium alvei</i> (1-methoxy mycolic acids: Absolute stereochemistry and synthesis. <i>Chemistry and Physics of Lipids</i> , 2020, 233, 104977.	3.2	2
84	Characteristic product ions of acetylene carotenoids by electrospray and nanospray ionization tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8811.	1.5	2
85	Fundamentals and Applications of Analytical Chemistry in Natural Products. <i>International Journal of Analytical Chemistry</i> , 2012, 2012, 1-2.	1.0	1
86	Conjugated oligomers with alternating heterocycles from a single monomer: synthesis and demonstration of electroluminescence. <i>Organic Chemistry Frontiers</i> , 2019, 6, 3636-3643.	4.5	1
87	A study of the application of graphite MALDI to the analysis of lanthanides and deconvolution of the isobaric species observed. <i>Analyst, The</i> , 2021, 146, 5988-5994.	3.5	1
88	Further Biochemical Profiling of <i>Hypholoma fasciculare</i> Metabolome Reveals Its Chemogenetic Diversity. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 567384.	4.1	1
89	Structural elucidation studies of erythromycins by electrospray tandem mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1999, 13, 242-246.	1.5	1
90	Chemometric approaches to resolving base oil mixtures. <i>Rapid Communications in Mass Spectrometry</i> , 2022, 36, e9214.	1.5	1

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91	The Application of "Double Isolation" in Fourier Transform Ion Cyclotron Resonance Sustained off-Resonance Irradiation Collisionally-Induced Dissociation Tandem Mass Spectrometry to Remove Labile Isobaric Impurities. <i>European Journal of Mass Spectrometry</i> , 2011, 17, 481-484.	1.0	0
92	An LC-MS/MS analysis of opiate residues on Thomas Chatterton's (1752-1770) memorandum book "Did he die from a laudanum overdose?". <i>Analyst</i> , 2020, 145, 8104-8110.	3.5	0
93	Negative ion 'chip-based' nanospray tandem mass spectrometry for the analysis of flavonoids in glandular trichomes of <i>Lychnophora ericoides</i> Mart. <i>Planta Medica</i> , 2008, 74, .	1.3	0
94	EFFECT OF CHARGE GENERATION IN ESI SOURCE ON THE NEUTRAL AROMATIC ELIMINATION MECHANISM IN XANTHOPHYLLS. <i>Semioses Inova</i> - Desenvolvimento E Sustentabilidade, 2016, 10, .	0.1	0
95	CHAPTER 10. Perspectives for the Future. <i>Chemical Biology</i> , 0, , 264-287.	0.2	0