

Felipe Fantuzzi

List of Publications by Citations

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76
papers

544
citations

13
h-index

18
g-index

87
ext. papers

777
ext. citations

6.7
avg, IF

4.42
L-index

#	Paper	IF	Citations
76	Nature of the chemical bond and origin of the inverted dipole moment in boron fluoride: a generalized valence bond approach. <i>Journal of Physical Chemistry A</i> , 2015 , 119, 5335-43	2.8	29
75	Lewis-Base Stabilization of the Parent Al(I) Hydride under Ambient Conditions. <i>Journal of the American Chemical Society</i> , 2019 , 141, 16954-16960	16.4	28
74	Description of Polar Chemical Bonds from the Quantum Mechanical Interference Perspective. <i>Journal of Chemical Theory and Computation</i> , 2014 , 10, 2322-32	6.4	27
73	cAAC-Stabilized 9,10-diboraanthracenes-Acenes with Open-Shell Singlet Biradical Ground States. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19338-19343	16.4	24
72	Chemical bonding in the pentagonal-pyramidal benzene dication and analogous isoelectronic hexa-coordinate species. <i>Computational and Theoretical Chemistry</i> , 2017 , 1116, 225-233	2	22
71	The non-covalent nature of the molecular structure of the benzene molecule. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 11024-30	3.6	22
70	Interference energy in C-H and C-C bonds of saturated hydrocarbons: dependence on the type of chain and relationship to bond dissociation energy. <i>Journal of Physical Chemistry A</i> , 2013 , 117, 4025-34	2.8	20
69	The role of quantum-mechanical interference and quasi-classical effects in conjugated hydrocarbons. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 5479-88	3.6	19
68	The Nature of the Singlet and Triplet States of Cyclobutadiene as Revealed by Quantum Interference. <i>ChemPhysChem</i> , 2016 , 17, 288-95	3.2	18
67	Photodissociation of methyl formate in circumstellar environment: stability under soft X-rays. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011 , 417, 2631-2641	4.3	18
66	The Nature of the Chemical Bond from a Quantum Mechanical Interference Perspective. <i>ChemistrySelect</i> , 2017 , 2, 604-619	1.8	17
65	On the metastability of doubly charged homonuclear diatomics. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 19352-19359	3.6	17
64	Hydrogenated Benzene in Circumstellar Environments: Insights into the Photostability of Super-hydrogenated PAHs. <i>Astrophysical Journal</i> , 2018 , 854, 61	4.7	14
63	A Neutral Beryllium(I) Radical. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 20776-20780	16.4	13
62	Reduction of a dihydroboryl cation to a boryl anion and its air-stable, neutral hydroboryl radical through hydrogen shuttling. <i>Chemical Science</i> , 2020 , 11, 551-555	9.4	12
61	SINGLE AND DOUBLE PHOTOIONIZATION AND PHOTODISSOCIATION OF TOLUENE BY SOFT X-RAYS IN A CIRCUMSTELLAR ENVIRONMENT. <i>Astrophysical Journal</i> , 2016 , 821, 4	4.7	11
60	Reduction and Rearrangement of a Boron(I) Carbonyl Complex. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 2963-2968	16.4	11

59	Twisting versus Delocalization in CAAC- and NHC-Stabilized Boron-Based Biradicals: The Roles of Sterics and Electronics. <i>Chemistry - A European Journal</i> , 2021 , 27, 5160-5170	4.8	11
58	Isolation and Reactivity of an Antiaromatic s-Block Metal Compound. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 3812-3819	16.4	11
57	Destruction and multiple ionization of PAHs by X-rays in circumnuclear regions of AGNs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 488, 451-469	4.3	10
56	Theoretical and experimental investigation on the stability of $C_n=1B^H$ and $C_n=1BH_x^+$ clusters. <i>Chemical Physics</i> , 2013 , 410, 109-117	2.3	10
55	Ruthenium(II)-Catalyzed Double Annulation of Quinones: Step-Economical Access to Valuable Bioactive Compounds. <i>Chemistry - A European Journal</i> , 2020 , 26, 10981-10986	4.8	9
54	Prediction of Boron-Boron Triple-Bond Polymers Stabilized by Janus-Type Bis(N-heterocyclic) Carbenes. <i>Chemistry - A European Journal</i> , 2015 , 21, 7814-9	4.8	9
53	Unexpected reversal of stability in strained systems containing one-electron bonds. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 24984-24992	3.6	9
52	Functionalization of N via Formal 1,3-Haloboration of a Tungsten(0) Dinitrogen Complex. <i>Chemistry - A European Journal</i> , 2020 , 26, 16019-16027	4.8	8
51	Diboryne Nanostructures Stabilized by Multitopic N-Heterocyclic Carbenes: A Computational Study. <i>Inorganic Chemistry</i> , 2018 , 57, 3931-3940	5.1	8
50	Doubly and Triply Charged Species Formed from Chlorobenzene Reveal Unusual C-Cl Multiple Bonding. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4288-4292	16.4	8
49	cAAC-stabilisierte 9,10-Diboraanthracene σ -ffenschalige Singulettbiradikale. <i>Angewandte Chemie</i> , 2020 , 132, 19502-19507	3.6	8
48	Adducts of the Parent Boraphosphaketene H BPCO and their Decarbonylative Insertion Chemistry. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13666-13670	16.4	8
47	Highly Colored Boron-Doped Thiazolothiazoles from the Reductive Dimerization of Boron Isothiocyanates. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6446-6450	16.4	8
46	Oxidation, Coordination, and Nickel-Mediated Deconstruction of a Highly Electron-Rich Diboron Analogue of 1,3,5-Hexatriene. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15717-15725	16.4	8
45	Borane-diyl- and Diborane(4)-1,2-diyl-Bridged Platinum A-Frame Complexes. <i>Chemistry - A European Journal</i> , 2020 , 26, 8518-8523	4.8	6
44	Rhodium(III)-Catalyzed C-H/N-H Alkyne Annulation of Nonsymmetric 2-Aryl (Benz)imidazole Derivatives: Photophysical and Mechanistic Insights. <i>Journal of Organic Chemistry</i> , 2021 , 86, 264-278	4.2	6
43	Bond-Strengthening Backdonation in Aminoborylene-Stabilized Aminoborylenes: At the Intersection of Borylenes and Diborenes. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 12893-12897	16.4	5
42	Positive molecular ions and ion-neutral complexes in the gas phase: Structure and stability of $C_2H_4O_2^+$ and $C_2H_4O_2^{2+}$ isomers. <i>International Journal of Quantum Chemistry</i> , 2012 , 112, 3303-3311	2.1	5

41	Production of Long-Lived Benzene Dications from Electron Impact in the 20-2000 eV Energy Range Combined with the Search for Global Minimum Structures. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 9261-9271	2.8	5
40	Isolierung und Reaktivität eines s-Block-Metall-Antiaromaten. <i>Angewandte Chemie</i> , 2021 , 133, 3856-3863	3.6	5
39	Structure, Stability, and Spectroscopic Properties of Small Acetonitrile Cation Clusters. <i>Journal of Physical Chemistry A</i> , 2020 , 124, 6845-6855	2.8	4
38	Isolation of Neutral, Mono-, and Dicationic B P Rings by Diphosphorus Addition to a Boron-Boron Triple Bond. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 13661-13665	16.4	4
37	Reduktion und Umlagerung eines Bor(I)-Carbonylkomplexes. <i>Angewandte Chemie</i> , 2021 , 133, 3000-3005	3.6	4
36	Intensiv farbige Bor-dotierte Thiazolthiazole durch reduktive Dimerisierung von Borisothiocyanaten. <i>Angewandte Chemie</i> , 2021 , 133, 6519-6524	3.6	4
35	Cyclo-Dipnictadialanes. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 24318-24325	16.4	4
34	Mechanistic Insights into the Formation of Lithium Fluoride Nanotubes. <i>Chemistry - A European Journal</i> , 2019 , 25, 5269-5279	4.8	3
33	Gas-phase spectroscopic characterization of neutral and ionic polycyclic aromatic phosphorus heterocycles (PAPHs). <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 500, 2564-2576	4.3	3
32	Selective mono- and dimetallation of a group 3 sandwich complex. <i>Chemical Communications</i> , 2019 , 55, 9677-9680	5.8	3
31	One- and two-electron reduction of triarylborane-based helical donor-acceptor compounds. <i>Chemical Science</i> , 2021 , 12, 11864-11872	9.4	3
30	Oxidation, Coordination, and Nickel-Mediated Deconstruction of a Highly Electron-Rich Diboron Analogue of 1,3,5-Hexatriene. <i>Angewandte Chemie</i> , 2020 , 132, 15847-15855	3.6	2
29	Diborane(4) Azides: Surprisingly Stable Sources of Transient Iminoboranes. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15480-15486	16.4	2
28	Tuneable reduction of cymantrenylboranes to diborenes or borylene-derived boratafulvenes. <i>Chemical Communications</i> , 2020 , 56, 14809-14812	5.8	2
27	Addukte des Stammboraphosphaketens H ₂ BPCO und deren Insertionsreaktionen mittels Decarbonylierung. <i>Angewandte Chemie</i> , 2021 , 133, 13780-13784	3.6	2
26	Platinum-Templated Coupling of B=N Units: Synthesis of BNB _n Analogues of 1,3-Dienes and a Butatriene. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 16864-16868	16.4	2
25	Splitting of multiple hydrogen molecules by bioinspired diniobium metal complexes: a DFT study. <i>Dalton Transactions</i> , 2021 , 50, 840-849	4.3	2
24	Unexpected formation of a dodecanuclear {Co ₁₆ Cu ₁₆ } nanowheel under ambient conditions: magneto-structural correlations. <i>Dalton Transactions</i> , 2021 , 50, 12430-12434	4.3	2

23	Reactivity of cyano- and isothiocyanatoborylenes: metal coordination, one-electron oxidation and boron-centred Brønsted basicity. <i>Chemical Science</i> , 2021 , 12, 7937-7942	9.4	2
22	Taming the Antiferromagnetic Beast: Computational Design of Ultrashort Mn-Mn Bonds Stabilized by N-Heterocyclic Carbenes. <i>Chemistry - A European Journal</i> , 2021 , 27, 12126-12136	4.8	2
21	The Dimethylbismuth Cation: Entry Into Dative Bi-Bi Bonding and Unconventional Methyl Exchange. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 24388-24394	16.4	2
20	Bindungsstärkende Rückbindung in Aminoborylen-stabilisierten Aminoborylenen: an der Grenze zwischen Borylenen und Diborenen. <i>Angewandte Chemie</i> , 2019 , 131, 13025-13029	3.6	1
19	Mercury(II) Chloride. <i>Synlett</i> , 2014 , 25, 1043-1044	2.2	1
18	Dissociative single and double photoionization of biphenyl (C ₁₂ H ₁₀) by soft X-rays in planetary nebulae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 499, 6066-6083	4.3	1
17	Diverse ring-opening reactions of rhodium Nazaborete complexes. <i>Chemical Science</i> , 2020 , 11, 9134-9140	9.4	1
16	Fragmentation of isocyanic acid, HNCO, following core excitation and ionization. <i>Journal of Chemical Physics</i> , 2021 , 154, 114302	3.9	1
15	Isolierung neutraler, mono- und dikationischer B ₂ P ₂ -Ringe durch Addition eines Diphosphans an eine Bor-Bor-Dreifachbindung. <i>Angewandte Chemie</i> , 2021 , 133, 13774-13779	3.6	1
14	Ein neutrales Beryllium(I)-Radikal. <i>Angewandte Chemie</i> , 2021 , 133, 20944-20948	3.6	1
13	Understanding, Modulating, and Leveraging Transannular M-π Interactions. <i>Inorganic Chemistry</i> , 2021 , 60, 12790-12800	5.1	1
12	Dialkynyldiboranes(4) and the selectable reactivity of their C-H, C[triple bond, length as m-dash]C and B-B bonds. <i>Chemical Communications</i> , 2021 , 57, 2645-2648	5.8	1
11	Probing the Potential of Hitherto Unexplored Base-Stabilized Borylenes in Dinitrogen Binding.. <i>Chemistry - A European Journal</i> , 2022 , e202200833	4.8	1
10	Accurate Polarization-Resolved Absorption Spectra of Organic Semiconductor Thin Films Using First-Principles Quantum-Chemical Methods: Pentacene as a Case Study.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 3726-3731	6.4	1
9	Diboran(4)azide als stabile Quelle für kurzlebige Iminoborane. <i>Angewandte Chemie</i> , 2020 , 132, 15608-15614	3.6	0
8	Ab initio study of structural and electronic properties of lithium fluoride nanotubes. <i>Journal of Applied Physics</i> , 2021 , 129, 205102	2.5	0
7	Diphosphino-Functionalized 1,8-Naphthyridines: a Multifaceted Ligand Platform for Boranes and Diboranes. <i>Chemistry - A European Journal</i> , 2021 , 27, 15751-15756	4.8	0
6	Cyclische Dipnictadialane. <i>Angewandte Chemie</i> , 2021 , 133, 24520	3.6	0

- 5 Are disulfide bonds resilient to double ionization? Insights from coincidence spectroscopy and calculations.. *RSC Advances*, **2020**, 10, 35039-35048 3.7
- 4 Platin-vermittelte Kupplung von B=N-Einheiten: Synthese von BNB-N-Analoga von 1,3-Dienen und Butatrien. *Angewandte Chemie*, **2021**, 133, 17000-17004 3.6
- 3 Twisting versus Delocalization in CAAC- and NHC-Stabilized Boron-Based Biradicals: The Roles of Sterics and Electronics. *Chemistry - A European Journal*, **2021**, 27, 5056 4.8
- 2 Controlled Synthesis of Oligomers Containing Main-Chain B(sp²)-B(sp²) Bonds. *Chemistry - A European Journal*, **2021**, 27, 16043-16048 4.8
- 1 Multiply charged naphthalene and its C₁₀H₈ isomers: bonding, spectroscopy, and implications in AGN environments. *Monthly Notices of the Royal Astronomical Society*, **2022**, 512, 4669-4682 4.3