

Musiri M Balakrishnarajan

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Electronic Requirements for Macropolyhedral Boranes. <i>Chemical Reviews</i> , 2002, 102, 93-144.	23.0	206
2	A Unifying Electron-Counting Rule for Macropolyhedral Boranes, Metallaboranes, and Metallocenes. <i>Journal of the American Chemical Society</i> , 2001, 123, 4313-4323.	6.6	189
3	Structure and bonding in boron carbide: The invincibility of imperfections. <i>New Journal of Chemistry</i> , 2007, 31, 473.	1.4	118
4	Polyhedral Boranes and Elemental Boron: Direct Structural Relations and Diverse Electronic Requirements. <i>Journal of the American Chemical Society</i> , 2001, 123, 4324-4330.	6.6	71
5	Electronic Requirements of Polycondensed Polyhedral Boranes. <i>Journal of the American Chemical Society</i> , 2000, 122, 4516-4517.	6.6	55
6	Electronic structure and bonding of β -rhombohedral boron using cluster fragment approach. <i>Physical Review B</i> , 2005, 72, .	1.1	54
7	Topological resonance energy predictions of the stability of fullerene clusters. <i>Chemical Physics Letters</i> , 1994, 222, 95-100.	1.2	47
8	Electron-Deficient Bonding in β Rhomboid Rings. <i>Journal of the American Chemical Society</i> , 2004, 126, 13119-13131.	6.6	45
9	Ab Initio Predictions on Novel Stuffed Polyhedral Boranes. <i>Journal of the American Chemical Society</i> , 2000, 122, 7392-7393.	6.6	33
10	Magic Electron Counts and Bonding in Tubular Boranes. <i>Inorganic Chemistry</i> , 2003, 42, 4650-4659.	1.9	29
11	The ubiquitous icosahedral B ₁₂ in boron chemistry. <i>Bulletin of Materials Science</i> , 1999, 22, 863-867.	0.8	20
12	Polyhedral Borane Analogues of the Benzynes and Beyond: Bonding in Variously Charged B ₁₂ H ₁₀ Isomers. <i>Journal of the American Chemical Society</i> , 2012, 134, 5916-5920.	6.6	17
13	Missing Hydrogens in B ₁₉ H ₂₀ ? Application of Electron Counting Rule for Edge-Sharing Macropolyhedral Boranes. <i>Inorganic Chemistry</i> , 2001, 40, 1730-1731.	1.9	15
14	Polyhedral Boranes with Exo Multiple Bonds: Three-Dimensional Inorganic Analogues of Quinones. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3777-3781.	7.2	12
15	Preference for a propellane motif in pure silicon nanosheets. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 11186-11190.	1.3	12
16	Exohedral Multiple Bonding in Polyhedra. 2. Skeletal Distortions in Ring-Stacked Boranes. <i>Inorganic Chemistry</i> , 2004, 43, 27-32.	1.9	8
17	An artificial intelligence approach for the generation and enumeration of perfect matchings on graphs. <i>Computers and Mathematics With Applications</i> , 1995, 29, 115-121.	1.4	7
18	Electronic Origin of Out-of-Plane Distortions in Porphyrins. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 3200-3207.	1.0	7

#	ARTICLE	IF	CITATIONS
19	Deltahedra with holes: Structural preferences of supraicosahedral boranes. <i>Polyhedron</i> , 2013, 63, 55-59.	1.0	6
20	General Method for the Computation of Matching Polynomials of Graphs. <i>Journal of Chemical Information and Computer Sciences</i> , 1994, 34, 1122-1126.	2.8	5
21	Thinking about metal-metal quadruple bonding in extended structures: a hypothetical A ₂ M ₆ E ₈ network. <i>New Journal of Chemistry</i> , 2004, 28, 185.	1.4	5
22	Nature of Interactions between Epoxides in Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1695-1703.	1.5	5
23	Anatomy of Classical Boron-Boron Bonding: Overlap and sp Dissonance. <i>Journal of Physical Chemistry A</i> , 2022, , .	1.1	4
24	Heuristic enhancements of the search for the generation of all perfect matchings. <i>Applied Mathematics Letters</i> , 1996, 9, 49-53.	1.5	3
25	Density functional studies on (NCH) _n azagraphane: activated surface for organocatalysis. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19861-19865.	1.3	3
26	A fast graph traversal algorithm for the computer enumeration of P-V paths of benzenoid graphs. <i>Computers & Chemistry</i> , 1995, 19, 101-106.	1.2	1
27	On the Origin of Photodynamic activity of Perylene Quinone Framework. <i>Journal of Physics: Conference Series</i> , 2016, 759, 012025.	0.3	1
28	Magic Electron Counts and Bonding in Tubular Boranes. <i>ChemInform</i> , 2003, 34, no.	0.1	0
29	Polyhedral Boranes with Exo Multiple Bonds: Three-Dimensional Inorganic Analogues of Quinones. <i>ChemInform</i> , 2003, 34, no.	0.1	0
30	Electron-Deficient Bonding in Rhomboid Rings.. <i>ChemInform</i> , 2004, 35, no.	0.1	0
31	Electronic Requirements and Structural Preferences for Large Polyhedral Boranes. <i>Challenges and Advances in Computational Chemistry and Physics</i> , 2015, , 181-197.	0.6	0