Musiri M Balakrishnarajan

List of Publications by Citations

27 papers	853 citations	13 h-index	29 g-index
32 ext. papers	918 ext. citations	9 avg, IF	3.82 L-index

#	Paper	IF	Citations
27	Electronic requirements for macropolyhedral boranes. *Chemical Reviews*, **2002**, 102, 93-144	68.1	181
26	A unifying electron-counting rule for macropolyhedral boranes, metallaboranes, and metallocenes. *Journal of the American Chemical Society*, **2001**, 123, 4313-23	16.4	158
25	Structure and bonding in boron carbide: The invincibility of imperfections. *New Journal of Chemistry* , **2007**, 31, 473	3.6	103
24	Polyhedral boranes and elemental boron: direct structural relations and diverse electronic requirements. *Journal of the American Chemical Society*, **2001**, 123, 4324-30	16.4	62
23	Electronic structure and bonding of α-rhombohedral boron using cluster fragment approach. *Physical Review B*, **2005**, 72,	3.3	53
22	Electronic Requirements of Polycondensed Polyhedral Boranes. *Journal of the American Chemical Society*, **2000**, 122, 4516-4517	16.4	50
21	Topological resonance energy predictions of the stability of fullerene clusters. *Chemical Physics Letters*, **1994**, 222, 95-100	2.5	40
20	Electron-deficient bonding in rhomboid rings. *Journal of the American Chemical Society*, **2004**, 126, 13119-31	13.1	39
19	Ab Initio Predictions on Novel Stuffed Polyhedral Boranes. *Journal of the American Chemical Society* , **2000**, 122, 7392-7393	16.4	30
18	Magic electron counts and bonding in tubular boranes. *Inorganic Chemistry*, **2003**, 42, 4650-9	5.1	27
17	The ubiquitous icosahedral B12 in boron chemistry. *Bulletin of Materials Science*, **1999**, 22, 863-867	1.7	18
16	Polyhedral borane analogues of the benzynes and beyond: bonding in variously charged B12H10 isomers. *Journal of the American Chemical Society*, **2012**, 134, 5916-20	16.4	14
15	Missing hydrogens in B(19)H(20)(-)? Application of electron counting rule for edge-sharing macropolyhedral boranes. *Inorganic Chemistry*, **2001**, 40, 1730-1	5.1	14
14	Preference for a propellane motif in pure silicon nanosheets. *Physical Chemistry Chemical Physics*, **2014**, 16, 11186-90	3.6	11
13	Polyhedral boranes with exo multiple bonds: three-dimensional inorganic analogues of quinones. *Angewandte Chemie - International Edition*, **2003**, 42, 3777-81	16.4	9
12	Exohedral multiple bonding in polyhedra. 2. Skeletal distortions in ring-stacked boranes. *Inorganic Chemistry*, **2004**, 43, 27-32	5.1	7
11	An artificial intelligence approach for the generation and enumeration of perfect matchings on graphs. *Computers and Mathematics With Applications*, **1995**, 29, 115-121	2.7	7

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10	Electronic Origin of Out-of-Plane Distortions in Porphyrins. *European Journal of Inorganic Chemistry*, **2014**, 2014, 3200-3207	2.3	6
9	Deltahedra with holes: Structural preferences of supraicosahedral boranes. *Polyhedron*, **2013**, 63, 55-59	2.7	5
8	General Method for the Computation of Matching Polynomials of Graphs. *Journal of Chemical Information and Computer Sciences*, **1994**, 34, 1122-1126		5
7	Thinking about metal-metal quadruple bonding in extended structures: a hypothetical A2M6E8 network. *New Journal of Chemistry*, **2004**, 28, 185	3.6	3
6	Heuristic enhancements of the search for the generation of all perfect matchings. *Applied Mathematics Letters*, **1996**, 9, 49-53	3.5	3
5	Nature of Interactions between Epoxides in Graphene Oxide. *Journal of Physical Chemistry C*, **2020**, 124, 1695-1703	3.8	3
4	Density functional studies on (NCH)n azagraphane: activated surface for organocatalysis. *Physical Chemistry Chemical Physics*, **2014**, 16, 19861-5	3.6	2
3	On the Origin of Photodynamic activity of Perylene Quinone Framework. *Journal of Physics: Conference Series*, **2016**, 759, 012025	0.3	1
2	A fast graph traversal algorithm for the computer enumeration of P-V paths of benzenoid graphs. *Computers & Chemistry*, **1995**, 19, 101-106		1
1	Electronic Requirements and Structural Preferences for Large Polyhedral Boranes. *Challenges and Advances in Computational Chemistry and Physics*, **2015**, 181-197	0.7	