

# Michael J Bucknum

## List of Publications by Year in Descending Order

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**Version:** 2024-04-26

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

35  
papers

291  
citations

8  
h-index

16  
g-index

39  
ext. papers

318  
ext. citations

3.3  
avg, IF

2.97  
L-index

#	Paper	IF	Citations
35	On the proposal of an Eddington ratio of natural energies, <i>Indian Journal of Physics</i> , <b>2021</b> , 95, 911-914	1.4	
34	Approximation of the electron-proton mass ratio as a series in powers of $(\text{uppi})$ . <i>Journal of Mathematical Chemistry</i> , <b>2018</b> , 56, 1360-1364	2.1	1
33	Sommerfeld's fine structure constant approximated as a series representation in $e$ and $(\text{pi})$ . <i>Journal of Mathematical Chemistry</i> , <b>2018</b> , 56, 651-655	2.1	2
32	Preservation of C hexagons in the transformation of C allotropes. <i>Journal of Mathematical Chemistry</i> , <b>2014</b> , 52, 2013-2019	2.1	
31	Squaroglitter: A 3,4-Connected Carbon Net. <i>Journal of Chemical Theory and Computation</i> , <b>2013</b> , 9, 3855-3864	6.4	7
30	Classification of Carbon Allotropes and Graphs <b>2013</b> , 57-88		
29	Spiro Quantum Chemistry <b>2013</b> , 1-35		
28	Synthesis of Glitter <b>2013</b> , 37-55		
27	Isoglitter. <i>Journal of Mathematical Chemistry</i> , <b>2012</b> , 50, 2281-2290	2.1	3
26	On the n-diamond and i-carbon nanocrystalline forms. <i>Journal of Mathematical Chemistry</i> , <b>2012</b> , 50, 1034-1038	13	
25	High Pressure Synthesis of the Carbon Allotrope Hexagonite with Carbon Nanotubes in a Diamond Anvil Cell. <i>Carbon Materials</i> , <b>2011</b> , 79-93		2
24	Playing the quantum chemical slot machine: an exploration of ABX <sub>2</sub> compounds. <i>Inorganic Chemistry</i> , <b>2010</b> , 49, 249-60	5.1	5
23	Trigohexagonite. <i>Journal of Mathematical Chemistry</i> , <b>2010</b> , 48, 816-826	2.1	2
22	Chemical topology of crystalline matter and the transcendental numbers $\pi$ , $e$ and $\phi$ <i>Journal of Mathematical Chemistry</i> , <b>2009</b> , 46, 117-138	2.1	7
21	The squarographites: A lesson in the chemical topology of tessellations in 2- and 3-dimensions. <i>Solid State Sciences</i> , <b>2008</b> , 10, 1245-1251	3.4	17
20	First-principles studies of diamond polytypes. <i>Diamond and Related Materials</i> , <b>2008</b> , 17, 356-364	3.5	53
19	Instabilities in cubic diamond under non-hydrostatic compressive stress. <i>Diamond and Related Materials</i> , <b>2008</b> , 17, 1353-1355	3.5	9

18	New Molecular Descriptors based upon the Euler Equations for Chemical Graphs. <i>Journal of Mathematical Chemistry</i> , <b>2007</b> , 41, 193-208	2.1	8
17	Some Comments on the Matter Wave-light Wave Hypothesis. <i>Journal of Mathematical Chemistry</i> , <b>2007</b> , 42, 367-372	2.1	1
16	Some Comments on the Topological Features of Some 3-,4-connected Networks and their Relationships with the Numbers e and $\phi$ <i>Journal of Mathematical Chemistry</i> , <b>2007</b> , 42, 373-376	2.1	1
15	POTENTIAL UNUSUAL CHEMICAL BONDING IN MIXED METAL STRUCTURES OF THE 3d TRANSITION SERIES CONTAINING THE ELEMENT Ni. <i>Journal of Theoretical and Computational Chemistry</i> , <b>2007</b> , 06, 165-175	1.8	
14	ON THE STRUCTURE OF i-CARBON. <i>Journal of Theoretical and Computational Chemistry</i> , <b>2006</b> , 05, 175-1858		13
13	On topological form in structures. <i>Journal of Mathematical Chemistry</i> , <b>2006</b> , 39, 33-46	2.1	2
12	Dynamic Elasticity of Cubic Diamond. <i>Journal of Mathematical Chemistry</i> , <b>2006</b> , 40, 341-347	2.1	1
11	Hexagonite: A Hypothetical Organic Zeolite. <i>Journal of Mathematical Chemistry</i> , <b>2006</b> , 39, 611-628	2.1	6
10	On topological form in structures. <i>Journal of Mathematical Chemistry</i> , <b>2006</b> , 40, 327-340	2.1	3
9	Electronic structure and bulk modulus of silicon dicarbide: a glitter phase. <i>Computational and Theoretical Chemistry</i> , <b>2005</b> , 716, 73-78		6
8	Moravia: A 3-, 8-connected cubic structural pattern in space group Pm3m. <i>Open Chemistry</i> , <b>2005</b> , 3, 169-178		4
7	Anharmonic compression of the glitter lattice. <i>Journal of Molecular Modeling</i> , <b>2005</b> , 12, 111-24	2	1
6	Towards a microscopic theory of the modulus of elasticity in crystalline covalent materials and a survey of potential superhard materials. <i>Journal of Mathematical Chemistry</i> , <b>2005</b> , 38, 27-42	2.1	4
5	Jubilite: A 4-,8-connected Cubic Structural Pattern in Space Group Pm3. <i>International Journal of Molecular Sciences</i> , <b>2005</b> , 6, 177-187	6.3	6
4	Spiroconjugation in 1-, 2-, and 3-Dimensions: The Foundations of a Spiro Quantum Chemistry. <i>Journal of Mathematical Chemistry</i> , <b>2004</b> , 36, 381-408	2.1	9
3	Thinking about metal-metal quadruple bonding in extended structures: a hypothetical A2M6E8 network. <i>New Journal of Chemistry</i> , <b>2004</b> , 28, 185	3.6	3
2	Effects of spiroconjugation in the electronic band structure of glitter. <i>Carbon</i> , <b>1997</b> , 35, 1-16	10.4	20
1	A Hypothetical Dense 3,4-Connected Carbon Net and Related B2C and CN2 Nets Built from 1,4-Cyclohexadienoid Units. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 11456-11464	16.4	81

