Robert M Hanson

List of Publications by Year
in descending order

28 papers	578 citations	1040056 9 h-index	610901 24 g-index
31 all docs	31 docs citations	31 times ranked	880 citing authors

#	Article	IF	Citations
1	JSmol and the Nextâ€Generation Webâ€Based Representation of 3D Molecular Structure as Applied to Proteopedia. Israel Journal of Chemistry, 2013, 53, 207-216.	2.3	210
2	MAGNDATA: towards a database of magnetic structures. I.â€...The commensurate case. Journal of Applied Crystallography, 2016, 49, 1750-1776.	4.5	87
3	Jmol SMILES and Jmol SMARTS: specifications and applications. Journal of Cheminformatics, 2016, 8, 50.	6.1	46
4	Programmatic conversion of crystal structures into 3D printable files using Jmol. Journal of Cheminformatics, 2016, 8, 66.	6.1	46
5	DSSR-enhanced visualization of nucleic acid structures in Jmol. Nucleic Acids Research, 2017, 45, W528-W533.	14.5	42
6	MAGNDATA: towards a database of magnetic structures. II. The incommensurate case. Journal of Applied Crystallography, 2016, 49, 1941-1956.	4.5	33
7	Interactive Web-Based Pointillist Visualization of Hydrogenic Orbitals Using Jmol. Journal of Chemical Education, 2013, 90, 129-131.	2.3	11
8	Algorithmic Analysis of Cahnâ€“Ingoldâ€“Prelog Rules of Stereochemistry: Proposals for Revised Rules and a Guide for Machine Implementation. Journal of Chemical Information and Modeling, 2018, 58, 1755-1765.	5.4	10
9	Quaternionâ€based definition of protein secondary structure straightness and its relationship to Ramachandran angles. Proteins: Structure, Function and Bioinformatics, 2011, 79, 2172-2180.	2.6	9
10	The Chemical Name Game. Journal of Chemical Education, 2002, 79, 1380.	2.3	8
11	Give Them Money: The Boltzmann Game, a Classroom or Laboratory Activity Modeling Entropy Changes and the Distribution of Energy in Chemical Systems. Journal of Chemical Education, 2006, 83, 581.	2.3	8
12	Interactive 3D Phase Diagrams Using Jmol. Journal of Chemical Education, 2009, 86, 566.	2.3	8
13	Determination of the Formula of a Hydrate: A Greener Alternative. Journal of Chemical Education, 2008, 85, 819.	2.3	7
14	IUPAC specification for the FAIR management of spectroscopic data in chemistry (IUPAC FAIRSpec)Ââ€“ guiding principles. Pure and Applied Chemistry, 2022, 94, 623-636.	1.9	7
15	Playing-Card Equilibrium. Journal of Chemical Education, 2003, 80, 1271.	2.3	5
16	A Unified Graphical Representation of Chemical Thermodynamics and Equilibrium. Journal of Chemical Education, 2012, 89, 1526-1529.	2.3	5
17	Confchem: Web-Based Applications for Chemical Education. Journal of Chemical Education, 2006, 83, 1592.	2.3	3
18	Using Graphs of Gibbs Energy versus Temperature in General Chemistry Discussions of Phase Changes and Colligative Properties. Journal of Chemical Education, 2008, 85, 1142.	2.3	3

#	Article	IF	Citations
19	ORBITAL. Journal of Chemical Education, 2003, 80, 109.	2.3	2
20	Web-Based Molecular Visualization for Chemistry Education in the 21st Century. ACS Symposium Series, 2010, , 65-77.	0.5	2
21	FAIR enough?. Spectroscopy Europe, 0, , 25.	0.0	2
22	An overview of the JCAMP-DX format. Pure and Applied Chemistry, 2022, .	1.9	2
23	Mechanism-Based Kinetics Simulator. Journal of Chemical Education, 2002, 79, 1379.	2.3	1
24	Huckel Determinant Solver. Journal of Chemical Education, 2002, 79, 1379.	2.3	1
25	Principal Species and pH in Acid-Base Solutions. Journal of Chemical Education, 2002, 79, 1486.	2.3	1
26	ORBITAL. Journal of Chemical Education, 2003, 80, 710.	2.3	1
27	24/7 Dynamic NMR Spectroscopy: A New Paradigm for Undergraduate NMR Use. ACS Symposium Series, 2007, , 62-76.	0.5	1
28	Regarding Entropy Analysis. Journal of Chemical Education, 2005, 82, 839.	2.3	0