

Donald A Tomalia

List of Publications by Year in Descending Order

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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.

19
papers

5,034
citations

13
h-index

21
g-index

21
ext. papers

5,310
ext. citations

7.5
avg, IF

5.9
L-index

#	Paper	IF	Citations
19	Early Goddard Contributions Confirming the Dendritic State: Engineering PAMAM Dendrimer CNDPs to Generate CW-Terahertz Radiation Suitable for Molecular, Bio- and Diagnostics Imaging Spectroscopy. <i>Springer Series in Materials Science</i> , 2021 , 935-958	0.9	
18	Liver Activation of Hepatocellular Nuclear Factor-4 β by Small Activating RNA Rescues Dyslipidemia and Improves Metabolic Profile. <i>Molecular Therapy - Nucleic Acids</i> , 2020 , 19, 361-370	10.7	22
17	The Role of Branch Cell Symmetry and Other Critical Nanoscale Design Parameters in the Determination of Dendrimer Encapsulation Properties. <i>Biomolecules</i> , 2020 , 10,	5.9	26
16	Critical evaluation of the interaction of special proteins with human stratum corneum via terahertz scanning reflectometry and spectrometry. <i>Precision Nanomedicine</i> , 2019 , 2, 256-269	1.2	0
15	Determination of non-traditional intrinsic fluorescence (NTIF) emission sites in 1-(4-carbomethoxypyrrolidone)-PAMAM dendrimers using CNDP-based quenching studies. <i>Journal of Nanoparticle Research</i> , 2018 , 20, 1	2.3	11
14	Terahertz-based nanometrology: multispectral imaging of nanoparticles and nanoclusters in suspensions. <i>Journal of Nanoparticle Research</i> , 2018 , 20, 1	2.3	0
13	Engineering dendrimers to produce dendrimer dipole excitation based terahertz radiation sources suitable for spectrometry, molecular and biomedical imaging. <i>Nanoscale Horizons</i> , 2017 , 2, 127-134	10.8	8
12	In memoriam of Prof. Dr. Fritz Vögtle (1939-2017). <i>Canadian Journal of Chemistry</i> , 2017 , 95, ix-x	0.9	2
11	A Systematic Framework and Nanoperiodic Concept for Unifying Nanoscience: Hard/Soft Nanoelements, Superatoms, Meta-Atoms, New Emerging Properties, Periodic Property Patterns, and Predictive Mendeleev-like Nanoperiodic Tables. <i>Chemical Reviews</i> , 2016 , 116, 2705-74	68.1	156
10	IN QUEST OF A SYSTEMATIC FRAMEWORK FOR UNIFYING AND DEFINING NANOSCIENCE. <i>Modern Physics Letters B</i> , 2014 , 28, 1430002	1.6	15
9	Dendritic effects: dependency of dendritic nano-periodic property patterns on critical nanoscale design parameters (CNDPs). <i>New Journal of Chemistry</i> , 2012 , 36, 264-281	3.6	133
8	Dendrimers, Dendrons, and Dendritic Polymers: Discovery, Applications, and the Future 2012 ,		166
7	Dendrons/dendrimers: quantized, nano-element like building blocks for soft-soft and soft-hard nano-compound synthesis. <i>Soft Matter</i> , 2010 , 6, 456-474	3.6	175
6	Dendrimer-based drug and imaging conjugates: design considerations for nanomedical applications. <i>Drug Discovery Today</i> , 2010 , 15, 171-85	8.8	638
5	In quest of a systematic framework for unifying and defining nanoscience. <i>Journal of Nanoparticle Research</i> , 2009 , 11, 1251-1310	2.3	216
4	Improved Methodology for Monitoring Poly(amidoamine) Dendrimers Surface Transformations and Product Quality by Ultra Performance Liquid Chromatography. <i>Journal of Nanomaterials</i> , 2008 , 2008, 1-7	3.2	22
3	Discovery of dendrimers and dendritic polymers: A brief historical perspective*. <i>Journal of Polymer Science Part A</i> , 2002 , 40, 2719-2728	2.5	691

2 Starburst Dendrimers: Molecular-Level Control of Size, Shape, Surface Chemistry, Topology, and Flexibility from Atoms to Macroscopic Matter. *Angewandte Chemie International Edition in English*, **1990**, 29, 138-175 2705

1 Thermal polymerization of a 2-(carboxyalkyl)-2-oxazoline. *Macromolecules*, **1988**, 21, 1556-1562 5.5 38