

# Donald A Tomalia

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4172378/publications.pdf>

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19  
papers

5,719  
citations

686830

13  
h-index

794141

19  
g-index

21  
all docs

21  
docs citations

21  
times ranked

5325  
citing authors

#	ARTICLE	IF	CITATIONS
1	Starburst Dendrimers: Molecular-Level Control of Size, Shape, Surface Chemistry, Topology, and Flexibility from Atoms to Macroscopic Matter. <i>Angewandte Chemie International Edition in English</i> , 1990, 29, 138-175.	4.4	3,032
2	Discovery of dendrimers and dendritic polymers: A brief historical perspective*. <i>Journal of Polymer Science Part A</i> , 2002, 40, 2719-2728.	2.5	795
3	Dendrimer-based drug and imaging conjugates: design considerations for nanomedical applications. <i>Drug Discovery Today</i> , 2010, 15, 171-185.	3.2	707
4	In quest of a systematic framework for unifying and defining nanoscience. <i>Journal of Nanoparticle Research</i> , 2009, 11, 1251-1310.	0.8	238
5	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, 2705-2774.	23.0	195
6	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.	1.2	194
7	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.	1.4	145
8	Thermal polymerization of a 2-(carboxyalkyl)-2-oxazoline. <i>Macromolecules</i> , 1988, 21, 1556-1562.	2.2	47
9	Liver Activation of Hepatocellular Nuclear Factor-4 $\beta$ by Small Activating RNA Rescues Dyslipidemia and Improves Metabolic Profile. <i>Molecular Therapy - Nucleic Acids</i> , 2020, 19, 361-370.	2.3	47
10	The Role of Branch Cell Symmetry and Other Critical Nanoscale Design Parameters in the Determination of Dendrimer Encapsulation Properties. <i>Biomolecules</i> , 2020, 10, 642.	1.8	42
11	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.	1.5	23
12	IN QUEST OF A SYSTEMATIC FRAMEWORK FOR UNIFYING AND DEFINING NANOSCIENCE. <i>Modern Physics Letters B</i> , 2014, 28, 1430002.	1.0	17
13	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.	0.8	17
14	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.	4.1	10
15	In memoriam of Prof. Dr. Fritz V $\ddot{a}$ gtle (1939â€“2017). <i>Canadian Journal of Chemistry</i> , 2017, 95, ix-x.	0.6	2
16	Terahertz-based nanometrology: multispectral imaging of nanoparticles and nanoclusters in suspensions. <i>Journal of Nanoparticle Research</i> , 2018, 20, 1.	0.8	2
17	A Serendipitous Journey Leading to My Love of Dendritic Patterns and Chemistry. <i>Molecules</i> , 2018, 23, 824.	1.7	1
18	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.	0.4	1

#	ARTICLE	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. Springer Series in Materials Science, 2021, , 935-958.	0.4	0