

# Matthew D Smith

## List of Publications by Year in descending order

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66  
papers

2,758  
citations

218677

26  
h-index

189892

50  
g-index

67  
all docs

67  
docs citations

67  
times ranked

3106  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oligodendrocyte precursor cells present antigen and are cytotoxic targets in inflammatory demyelination. <i>Nature Communications</i> , 2019, 10, 3887.	12.8	245
2	Lipid metabolism during plant senescence. <i>Progress in Lipid Research</i> , 1998, 37, 119-141.	11.6	244
3	Members of the Toc159 Import Receptor Family Represent Distinct Pathways for Protein Targeting to Plastids. <i>Molecular Biology of the Cell</i> , 2004, 15, 3379-3392.	2.1	190
4	atToc159 is a selective transit peptide receptor for the import of nucleus-encoded chloroplast proteins. <i>Journal of Cell Biology</i> , 2004, 165, 323-334.	5.2	148
5	Tumor suppressor TET2 promotes cancer immunity and immunotherapy efficacy. <i>Journal of Clinical Investigation</i> , 2019, 129, 4316-4331.	8.2	143
6	In Vivo Analysis of the Role of atTic20 in Protein Import into Chloroplasts. <i>Plant Cell</i> , 2002, 14, 641-654.	6.6	138
7	Bile acid metabolism is altered in multiple sclerosis and supplementation ameliorates neuroinflammation. <i>Journal of Clinical Investigation</i> , 2020, 130, 3467-3482.	8.2	109
8	Import Pathways of Chloroplast Interior Proteins and the Outer-Membrane Protein OEP14 Converge at Toc75. <i>Plant Cell</i> , 2004, 16, 2078-2088.	6.6	104
9	The targeting of the atToc159 preprotein receptor to the chloroplast outer membrane is mediated by its GTPase domain and is regulated by GTP. <i>Journal of Cell Biology</i> , 2002, 159, 833-843.	5.2	87
10	Transfer of Myelin-Reactive Th17 Cells Impairs Endogenous Remyelination in the Central Nervous System of Cuprizone-Fed Mice. <i>Journal of Neuroscience</i> , 2015, 35, 8626-8639.	3.6	86
11	Essential role of the G-domain in targeting of the protein import receptor atToc159 to the chloroplast outer membrane. <i>Journal of Cell Biology</i> , 2002, 159, 845-854.	5.2	77
12	The Roles of Toc34 and Toc75 in Targeting the Toc159 Preprotein Receptor to Chloroplasts. <i>Journal of Biological Chemistry</i> , 2003, 278, 44289-44297.	3.4	71
13	Characterization of a Plastid Triacylglycerol Lipase from Arabidopsis. <i>Plant Physiology</i> , 2007, 143, 1372-1384.	4.8	68
14	Distinct Pathways Mediate the Sorting of Tail-Anchored Proteins to the Plastid Outer Envelope. <i>PLoS ONE</i> , 2010, 5, e10098.	2.5	62
15	Effects of ACC deaminase containing rhizobacteria on plant growth and expression of Toc GTPases in tomato ( <i>Solanum lycopersicum</i> ) under salt stress. <i>Botany</i> , 2014, 92, 775-781.	1.0	59
16	Toward Understanding the Mechanism of Ion Transport Activity of Neuronal Uncoupling Proteins UCP2, UCP4, and UCP5. <i>Biochemistry</i> , 2012, 51, 4004-4014.	2.5	56
17	A Split-Ubiquitin Yeast Two-Hybrid Screen to Examine the Substrate Specificity of atToc159 and atToc132, Two Arabidopsis Chloroplast Preprotein Import Receptors. <i>PLoS ONE</i> , 2014, 9, e95026.	2.5	48
18	Single-cell transcriptomic reveals molecular diversity and developmental heterogeneity of human stem cell-derived oligodendrocyte lineage cells. <i>Nature Communications</i> , 2021, 12, 652.	12.8	47

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19	Co-Association of Cytochrome f Catabolites and Plastid-Lipid-Associated Protein with Chloroplast Lipid Particles. <i>Plant Physiology</i> , 2000, 124, 211-222.	4.8	41
20	Complement component 3 from astrocytes mediates retinal ganglion cell loss during neuroinflammation. <i>Acta Neuropathologica</i> , 2021, 142, 899-915.	7.7	39
21	Expression, Folding, and Proton Transport Activity of Human Uncoupling Protein-1 (UCP1) in Lipid Membranes. <i>Journal of Biological Chemistry</i> , 2013, 288, 36244-36258.	3.4	38
22	The antiobesity factor <sup>WDR5</sup> suppresses adipogenesis via the <sup>WDR5</sup> E3 ligase. <i>EMBO Reports</i> , 2016, 17, 638-647.	4.5	37
23	The acidic domains of the Toc159 chloroplast preprotein receptor family are intrinsically disordered protein domains. <i>BMC Biochemistry</i> , 2009, 10, 35.	4.4	34
24	Targeting and assembly of components of the TOC protein import complex at the chloroplast outer envelope membrane. <i>Frontiers in Plant Science</i> , 2014, 5, 269.	3.6	33
25	Peroxisomal Protein Import. <i>Cell</i> , 2001, 105, 293-296.	28.9	31
26	USP15 suppresses tumor immunity via deubiquitylation and inactivation of TET2. <i>Science Advances</i> , 2020, 6, .	10.3	28
27	CRL4 <sup>DCAF1/VprBP</sup> E3 ubiquitin ligase controls ribosome biogenesis, cell proliferation, and development. <i>Science Advances</i> , 2020, 6, .	10.3	27
28	A Comparative Study on Conformation and Ligand Binding of the Neuronal Uncoupling Proteins. <i>Biochemistry</i> , 2010, 49, 512-521.	2.5	26
29	The relationship between NMDA receptor function and the high ammonia tolerance of anoxia-tolerant goldfish. <i>Journal of Experimental Biology</i> , 2011, 214, 4107-4120.	1.7	26
30	Multi-omic evaluation of metabolic alterations in multiple sclerosis identifies shifts in aromatic amino acid metabolism. <i>Cell Reports Medicine</i> , 2021, 2, 100424.	6.5	26
31	Antibody production in plants. <i>Biotechnology Advances</i> , 1996, 14, 267-281.	11.7	25
32	In Vitro Analysis of Chloroplast Protein Import. <i>Current Protocols in Cell Biology</i> , 2003, 17, Unit11.16.	2.3	24
33	Inhibition of neutral sphingomyelinase 2 promotes remyelination. <i>Science Advances</i> , 2020, 6, .	10.3	23
34	Protein import into chloroplasts: an ever-evolving story This review is one of a selection of papers published in the Special Issue on Plant Cell Biology.. <i>Canadian Journal of Botany</i> , 2006, 84, 531-542.	1.1	22
35	Determination of Ga auto-incorporation in nominal InAlN epilayers grown by MOCVD. <i>Journal of Materials Chemistry C</i> , 2014, 2, 5787.	5.5	21
36	NLRX1 inhibits the early stages of CNS inflammation and prevents the onset of spontaneous autoimmunity. <i>PLoS Biology</i> , 2019, 17, e3000451.	5.6	21

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37	GaN-on-diamond technology platform: Bonding-free membrane manufacturing process. <i>AIP Advances</i> , 2020, 10, .	1.3	21
38	The production of antibodies in plants. <i>Biotechnology Advances</i> , 2000, 18, 85-89.	11.7	20
39	Structural and optical properties of Ga auto-incorporated InAlN epilayers. <i>Journal of Crystal Growth</i> , 2014, 408, 97-101.	1.5	19
40	Thermal stress modelling of diamond on GaN/III-Nitride membranes. <i>Carbon</i> , 2021, 174, 647-661.	10.3	19
41	CNS-targeted autoimmunity leads to increased influenza mortality in mice. <i>Journal of Experimental Medicine</i> , 2017, 214, 297-307.	8.5	16
42	A CD study of uncoupling protein-1 and its transmembrane and matrix-loop domains. <i>Biochemical Journal</i> , 2008, 411, 593-603.	3.7	13
43	Molecular Characterization and Expression Analysis of Chloroplast Protein Import Components in Tomato ( <i>Solanum lycopersicum</i> ). <i>PLoS ONE</i> , 2014, 9, e95088.	2.5	13
44	Uncoupling Proteins and Regulated Proton Leak in Mitochondria. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1528.	4.1	13
45	Glutamine antagonism attenuates physical and cognitive deficits in a model of MS. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2019, 6, .	6.0	12
46	Quetiapine has an additive effect to triiodothyronine in inducing differentiation of oligodendrocyte precursor cells through induction of cholesterol biosynthesis. <i>PLoS ONE</i> , 2019, 14, e0221747.	2.5	11
47	Therapeutic Potential of a Novel Glucagon-like Peptide-1 Receptor Agonist, NLY01, in Experimental Autoimmune Encephalomyelitis. <i>Neurotherapeutics</i> , 2021, 18, 1834-1848.	4.4	11
48	New Insights into the Chloroplast Outer Membrane Proteome and Associated Targeting Pathways. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1571.	4.1	11
49	The Pea Nodulation Mutant R50 ( <i>sym16</i> ) Displays Altered Activity and Expression Profiles for Cytokinin Dehydrogenase. <i>Journal of Plant Growth Regulation</i> , 2008, 27, 170-180.	5.1	10
50	Scanning electron microscopy as a flexible technique for investigating the properties of UV-emitting nitride semiconductor thin films. <i>Photonics Research</i> , 2019, 7, B73.	7.0	9
51	Role of Positively Charged Residues of the Second Transmembrane Domain in the Ion Transport Activity and Conformation of Human Uncoupling Protein-2. <i>Biochemistry</i> , 2015, 54, 2303-2313.	2.5	8
52	Structural and luminescence imaging and characterisation of semiconductors in the scanning electron microscope. <i>Semiconductor Science and Technology</i> , 2020, 35, 054001.	2.0	7
53	Polarity dependence in Cl <sub>2</sub> -based plasma etching of GaN, AlGaN and AlN. <i>Applied Surface Science</i> , 2020, 521, 146297.	6.1	7
54	pH-Induced Changes in Intrinsically Disordered Proteins. <i>Methods in Molecular Biology</i> , 2012, 896, 223-231.	0.9	6

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55	Folding and self-association of atTic20 in lipid membranes: implications for understanding protein transport across the inner envelope membrane of chloroplasts. BMC Biochemistry, 2014, 15, 29.	4.4	6
56	InAlN high electron mobility transistor Ti/Al/Ni/Au Ohmic contact optimisation assisted by in-situ high temperature transmission electron microscopy. Applied Physics Letters, 2015, 107, 113506.	3.3	6
57	A comparison of the <sup>60</sup> Co gamma radiation hardness, breakdown characteristics and the effect of SiNx capping on InAlN and AlGaN HEMTs for space applications. Semiconductor Science and Technology, 2016, 31, 025008.	2.0	6
58	The effect of a varied NH <sub>3</sub> flux on growth of AlN interlayers for InAlN/GaN heterostructures. Applied Physics Letters, 2013, 103, 081602.	3.3	5
59	Nanoscale fissure formation in Al <sub>x</sub> Ga <sub>1-x</sub> N/GaN heterostructures and their influence on Ohmic contact formation. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600353.	1.8	3
60	Type of serum collection tube does not impact neurofilament light chain levels. Multiple Sclerosis and Related Disorders, 2022, 59, 103676.	2.0	2
61	Expression, Reconstitution and Biophysical Studies of Neuronal Uncoupling Proteins: UCP4 and UCP5. Biophysical Journal, 2009, 96, 338a.	0.5	0
62	Conformation and Ion Transport of Neuronal Uncoupling Proteins. Biophysical Journal, 2011, 100, 358a.	0.5	0
63	Exploring the Biophysical Properties of Human Uncoupling Proteins: A Search for their Physiological Roles in the Central Nervous System. Biophysical Journal, 2012, 102, 626a.	0.5	0
64	On the Role of Positively Charged Residues of TM2 Domain in the Chloride Transport of Human UCP2. Biophysical Journal, 2013, 104, 301a.	0.5	0
65	Molecular Physiology of Uncoupling Proteins in the Central Nervous System: Self-Association and Proton Transport. Biophysical Journal, 2015, 108, 310a.	0.5	0
66	Conformational Analysis and Folding of Transmembrane and Matrix Peptide Segments of the Mitochondrial Uncoupling Proteins: A Comparative Study. Advances in Experimental Medicine and Biology, 2009, 611, 291-292.	1.6	0