Matthew D Smith

List of Publications by Year
in descending order

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	Uncoupling Proteins and Regulated Proton Leak in Mitochondria. International Journal of Molecular Sciences, 2022, 23, 1528.	4.1	13
2	New Insights into the Chloroplast Outer Membrane Proteome and Associated Targeting Pathways. International Journal of Molecular Sciences, 2022, 23, 1571.	4.1	11
3	Type of serum collection tube does not impact neurofilament light chain levels. Multiple Sclerosis and Related Disorders, 2022, 59, 103676.	2.0	2
4	Thermal stress modelling of diamond on GaN/III-Nitride membranes. Carbon, 2021, 174, 647-661.	10.3	19
5	Single-cell transcriptomic reveals molecular diversity and developmental heterogeneity of human stem cell-derived oligodendrocyte lineage cells. Nature Communications, 2021, 12, 652.	12.8	47
6	Therapeutic Potential of a Novel Glucagon-like Peptide-1 Receptor Agonist, NLY01, in Experimental Autoimmune Encephalomyelitis. Neurotherapeutics, 2021, 18, 1834-1848.	4.4	11
7	Complement component 3 from astrocytes mediates retinal ganglion cell loss during neuroinflammation. Acta Neuropathologica, 2021, 142, 899-915.	7.7	39
8	Multi-omic evaluation of metabolic alterations in multiple sclerosis identifies shifts in aromatic amino acid metabolism. Cell Reports Medicine, 2021, 2, 100424.	6.5	26
9	Inhibition of neutral sphingomyelinase 2 promotes remyelination. Science Advances, 2020, 6, .	10.3	23
10	USP15 suppresses tumor immunity via deubiquitylation and inactivation of TET2. Science Advances, 2020, 6, .	10.3	28
11	GaN-on-diamond technology platform: Bonding-free membrane manufacturing process. AIP Advances, 2020, 10, .	1.3	21
12	Structural and luminescence imaging and characterisation of semiconductors in the scanning electron microscope. Semiconductor Science and Technology, 2020, 35, 054001.	2.0	7
13	Polarity dependence in Cl2-based plasma etching of GaN, AlGaN and AlN. Applied Surface Science, 2020, 521, 146297.	6.1	7
14	CRL4 ^{DCAF1/VprBP} E3 ubiquitin ligase controls ribosome biogenesis, cell proliferation, and development. Science Advances, 2020, 6, .	10.3	27
15	Bile acid metabolism is altered in multiple sclerosis and supplementation ameliorates neuroinflammation. Journal of Clinical Investigation, 2020, 130, 3467-3482.	8.2	109
16	Quetiapine has an additive effect to triiodothyronine in inducing differentiation of oligodendrocyte precursor cells through induction of cholesterol biosynthesis. PLoS ONE, 2019, 14, e0221747.	2.5	11
17	Glutamine antagonism attenuates physical and cognitive deficits in a model of MS. Neurology: Neuroimmunology and NeuroInflammation, 2019, 6, .	6.0	12
18	Oligodendrocyte precursor cells present antigen and are cytotoxic targets in inflammatory demyelination. Nature Communications, 2019, 10, 3887.	12.8	245

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19	NLRX1 inhibits the early stages of CNS inflammation and prevents the onset of spontaneous autoimmunity. PLoS Biology, 2019, 17, e3000451.	5.6	21
20	Tumor suppressor TET2 promotes cancer immunity and immunotherapy efficacy. Journal of Clinical Investigation, 2019, 129, 4316-4331.	8.2	143
21	Scanning electron microscopy as a flexible technique for investigating the properties of UV-emitting nitride semiconductor thin films. Photonics Research, 2019, 7, B73.	7.0	9
22	CNS-targeted autoimmunity leads to increased influenza mortality in mice. Journal of Experimental Medicine, 2017, 214, 297-307.	8.5	16
23	Nanoscale fissure formation in Al_xGa_{1â€“x}N/GaN heterostructures and their influence on Ohmic contact formation. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600353.	1.8	3
24	A comparison of the60Co gamma radiation hardness, breakdown characteristics and the effect of SiNxcapping on InAlN and AlGaN HEMTs for space applications. Semiconductor Science and Technology, 2016, 31, 025008.	2.0	6
25	The antiobesity factor <scp>WDTC</scp>1 suppresses adipogenesis via the <scp>CRL</scp>4<scp>^{WDTC}</scp>¹ E3 ligase. EMBO Reports, 2016, 17, 638-647.	4.5	37
26	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
27	Molecular Physiology of Uncoupling Proteins in the Central Nervous System: Self-Association and Proton Transport. Biophysical Journal, 2015, 108, 310a.	0.5	0
28	Transfer of Myelin-Reactive Th17 Cells Impairs Endogenous Remyelination in the Central Nervous System of Cuprizone-Fed Mice. Journal of Neuroscience, 2015, 35, 8626-8639.	3.6	86
29	Role of Positively Charged Residues of the Second Transmembrane Domain in the Ion Transport Activity and Conformation of Human Uncoupling Protein-2. Biochemistry, 2015, 54, 2303-2313.	2.5	8
30	A Split-Ubiquitin Yeast Two-Hybrid Screen to Examine the Substrate Specificity of atToc159 and atToc132, Two Arabidopsis Chloroplast Preprotein Import Receptors. PLoS ONE, 2014, 9, e95026.	2.5	48
31	Effects of ACC deaminase containing rhizobacteria on plant growth and expression of Toc GTPases in tomato (Solanum lycopersicum) under salt stress. Botany, 2014, 92, 775-781.	1.0	59
32	Targeting and assembly of components of the TOC protein import complex at the chloroplast outer envelope membrane. Frontiers in Plant Science, 2014, 5, 269.	3.6	33
33	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
34	Structural and optical properties of Ga auto-incorporated InAlN epilayers. Journal of Crystal Growth, 2014, 408, 97-101.	1.5	19
35	Determination of Ga auto-incorporation in nominal InAlN epilayers grown by MOCVD. Journal of Materials Chemistry C, 2014, 2, 5787.	5.5	21
36	Molecular Characterization and Expression Analysis of Chloroplast Protein Import Components in Tomato (Solanum lycopersicum). PLoS ONE, 2014, 9, e95088.	2.5	13

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37	The effect of a varied NH3 flux on growth of AlN interlayers for InAlN/GaN heterostructures. Applied Physics Letters, 2013, 103, 081602.	3.3	5
38	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
39	Expression, Folding, and Proton Transport Activity of Human Uncoupling Protein-1 (UCP1) in Lipid Membranes. Journal of Biological Chemistry, 2013, 288, 36244-36258.	3.4	38
40	Toward Understanding the Mechanism of Ion Transport Activity of Neuronal Uncoupling Proteins UCP2, UCP4, and UCP5. Biochemistry, 2012, 51, 4004-4014.	2.5	56
41	pH-Induced Changes in Intrinsically Disordered Proteins. Methods in Molecular Biology, 2012, 896, 223-231.	0.9	6
42	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
43	Conformation and Ion Transport of Neuronal Uncoupling Proteins. Biophysical Journal, 2011, 100, 358a.	0.5	0
44	The relationship between NMDA receptor function and the high ammonia tolerance of anoxia-tolerant goldfish. Journal of Experimental Biology, 2011, 214, 4107-4120.	1.7	26
45	Distinct Pathways Mediate the Sorting of Tail-Anchored Proteins to the Plastid Outer Envelope. PLoS ONE, 2010, 5, e10098.	2.5	62
46	A Comparative Study on Conformation and Ligand Binding of the Neuronal Uncoupling Proteins. Biochemistry, 2010, 49, 512-521.	2.5	26
47	The acidic domains of the Toc159 chloroplast preprotein receptor family are intrinsically disordered protein domains. BMC Biochemistry, 2009, 10, 35.	4.4	34
48	Expression, Reconstitution and Biophysical Studies of Neuronal Uncoupling Proteins: UCP4 and UCP5. Biophysical Journal, 2009, 96, 338a.	0.5	0
49	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
50	The Pea Nodulation Mutant R50 (sym16) Displays Altered Activity and Expression Profiles for Cytokinin Dehydrogenase. Journal of Plant Growth Regulation, 2008, 27, 170-180.	5.1	10
51	A CD study of uncoupling protein-1 and its transmembrane and matrix-loop domains. Biochemical Journal, 2008, 411, 593-603.	3.7	13
52	Characterization of a Plastid Triacylglycerol Lipase from Arabidopsis. Plant Physiology, 2007, 143, 1372-1384.	4.8	68
53	Protein import into chloroplasts: an ever-evolving storyThis review is one of a selection of papers published in the Special Issue on Plant Cell Biology.. Canadian Journal of Botany, 2006, 84, 531-542.	1.1	22
54	Import Pathways of Chloroplast Interior Proteins and the Outer-Membrane Protein OEP14 Converge at Toc75. Plant Cell, 2004, 16, 2078-2088.	6.6	104

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55	Members of the Toc159 Import Receptor Family Represent Distinct Pathways for Protein Targeting to Plastids. Molecular Biology of the Cell, 2004, 15, 3379-3392.	2.1	190
56	atToc159 is a selective transit peptide receptor for the import of nucleus-encoded chloroplast proteins. Journal of Cell Biology, 2004, 165, 323-334.	5.2	148
57	The Roles of Toc34 and Toc75 in Targeting the Toc159 Preprotein Receptor to Chloroplasts. Journal of Biological Chemistry, 2003, 278, 44289-44297.	3.4	71
58	In Vitro Analysis of Chloroplast Protein Import. Current Protocols in Cell Biology, 2003, 17, Unit11.16.	2.3	24
59	The targeting of the atToc159 preprotein receptor to the chloroplast outer membrane is mediated by its GTPase domain and is regulated by GTP. Journal of Cell Biology, 2002, 159, 833-843.	5.2	87
60	Essential role of the G-domain in targeting of the protein import receptor atToc159 to the chloroplast outer membrane. Journal of Cell Biology, 2002, 159, 845-854.	5.2	77
61	In Vivo Analysis of the Role of atTic20 in Protein Import into Chloroplasts. Plant Cell, 2002, 14, 641-654.	6.6	138
62	Peroxisomal Protein Import. Cell, 2001, 105, 293-296.	28.9	31
63	The production of antibodies in plants. Biotechnology Advances, 2000, 18, 85-89.	11.7	20
64	Co-Association of Cytochrome f Catabolites and Plastid-Lipid-Associated Protein with Chloroplast Lipid Particles. Plant Physiology, 2000, 124, 211-222.	4.8	41
65	Lipid metabolism during plant senescence. Progress in Lipid Research, 1998, 37, 119-141.	11.6	244
66	Antibody production in plants. Biotechnology Advances, 1996, 14, 267-281.	11.7	25