

# Richard M Napier

## List of Publications by Citations

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64  
papers

2,645  
citations

25  
h-index

51  
g-index

69  
ext. papers

3,071  
ext. citations

6.7  
avg, IF

5.05  
L-index

#	Paper	IF	Citations
64	A combinatorial TIR1/AFB-Aux/IAA co-receptor system for differential sensing of auxin. <i>Nature Chemical Biology</i> , <b>2012</b> , 8, 477-85	11.7	371
63	Structure-function analysis of the presumptive Arabidopsis auxin permease AUX1. <i>Plant Cell</i> , <b>2004</b> , 16, 3069-83	11.6	261
62	Patch-clamp analysis establishes a role for an auxin binding protein in the auxin stimulation of plasma membrane current in <i>Zea mays</i> protoplasts. <i>Plant Journal</i> , <b>1993</b> , 4, 41-46	6.9	172
61	Maize calreticulin localizes preferentially to plasmodesmata in root apex. <i>Plant Journal</i> , <b>1999</b> , 19, 481-8	6.9	155
60	Novel auxin transport inhibitors phenocopy the auxin influx carrier mutation aux1. <i>Plant Journal</i> , <b>2001</b> , 25, 399-406	6.9	137
59	A short history of auxin-binding proteins. <i>Plant Molecular Biology</i> , <b>2002</b> , 49, 339-348	4.6	119
58	Crystal structure of auxin-binding protein 1 in complex with auxin. <i>EMBO Journal</i> , <b>2002</b> , 21, 2877-85	13	119
57	Receptors for auxin: will it all end in TIRs?. <i>Trends in Plant Science</i> , <b>2006</b> , 11, 217-23	13.1	112
56	Quick on the Uptake: Characterization of a Family of Plant Auxin Influx Carriers. <i>Journal of Plant Growth Regulation</i> , <b>2001</b> , 20, 217-225	4.7	92
55	Auxin action and auxin-binding proteins. <i>New Phytologist</i> , <b>1995</b> , 129, 167-201	9.8	90
54	Weed resistance to synthetic auxin herbicides. <i>Pest Management Science</i> , <b>2018</b> , 74, 2265-2276	4.6	73
53	Defining binding efficiency and specificity of auxins for SCF(TIR1/AFB)-Aux/IAA co-receptor complex formation. <i>ACS Chemical Biology</i> , <b>2014</b> , 9, 673-82	4.9	68
52	Auxin Receptors and Auxin Binding Proteins. <i>Critical Reviews in Plant Sciences</i> , <b>1995</b> , 14, 27-47	5.6	59
51	The binding of auxin to the Arabidopsis auxin influx transporter AUX1. <i>Plant Physiology</i> , <b>2008</b> , 148, 529-356	13.1	52
50	Zooming In on Plant Hormone Analysis: Tissue- and Cell-Specific Approaches. <i>Annual Review of Plant Biology</i> , <b>2017</b> , 68, 323-348	30.7	51
49	A short history of auxin-binding proteins. <i>Plant Molecular Biology</i> , <b>2002</b> , 49, 339-48	4.6	50
48	Single-Chain Glycopolymer Folding via Host-Guest Interactions and Its Unprecedented Effect on DC-SIGN Binding. <i>Biomacromolecules</i> , <b>2018</b> , 19, 3040-3047	6.9	40

47	cis-Cinnamic Acid Is a Novel, Natural Auxin Efflux Inhibitor That Promotes Lateral Root Formation. <i>Plant Physiology</i> , <b>2017</b> , 173, 552-565	6.6	39
46	Biosensors in plants. <i>Current Opinion in Plant Biology</i> , <b>2010</b> , 13, 736-43	9.9	39
45	Stability of small ubiquitin-like modifier (SUMO) proteases OVERLY TOLERANT TO SALT1 and -2 modulates salicylic acid signalling and SUMO1/2 conjugation in Arabidopsis thaliana. <i>Journal of Experimental Botany</i> , <b>2016</b> , 67, 353-63	7	37
44	Models of Auxin Binding. <i>Journal of Plant Growth Regulation</i> , <b>2001</b> , 20, 244-254	4.7	34
43	Auxins and Cytokinins-The Role of Subcellular Organization on Homeostasis. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	34
42	Plant hormone binding sites. <i>Annals of Botany</i> , <b>2004</b> , 93, 227-33	4.1	33
41	Recent Trends in Advanced Polymer Materials in Agriculture Related Applications. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 1203-1217	4.3	29
40	A cheminformatics review of auxins as herbicides. <i>Journal of Experimental Botany</i> , <b>2018</b> , 69, 265-275	7	26
39	Tomographic docking suggests the mechanism of auxin receptor TIR1 selectivity. <i>Open Biology</i> , <b>2016</b> , 6,	7	20
38	Jasmonic Acid Inhibits Auxin-Induced Lateral Rooting Independently of the CORONATINE INSENSITIVE1 Receptor. <i>Plant Physiology</i> , <b>2018</b> , 177, 1704-1716	6.6	20
37	Non-canonical auxin signalling: fast and curious. <i>Journal of Experimental Botany</i> , <b>2019</b> , 70, 2609-2614	7	18
36	Evolutionary Conserved Cysteines Function as cis-Acting Regulators of Arabidopsis PIN-FORMED 2 Distribution. <i>International Journal of Molecular Sciences</i> , <b>2017</b> , 18,	6.3	18
35	Plant pest and disease diagnosis using electronic nose and support vector machine approach. <i>Journal of Plant Diseases and Protection</i> , <b>2012</b> , 119, 200-207	1.5	18
34	Quinclorac resistance induced by the suppression of the expression of 1-aminocyclopropane-1-carboxylic acid (ACC) synthase and ACC oxidase genes in Echinochloa crus-galli var. zelayensis. <i>Pesticide Biochemistry and Physiology</i> , <b>2018</b> , 146, 25-32	4.9	17
33	Auxin molecular field maps define AUX1 selectivity: many auxin herbicides are not substrates. <i>New Phytologist</i> , <b>2018</b> , 217, 1625-1639	9.8	17
32	Pinstatic Acid Promotes Auxin Transport by Inhibiting PIN Internalization. <i>Plant Physiology</i> , <b>2019</b> , 180, 1152-1165	6.6	16
31	Bottlebrush Glycopolymers from 2-Oxazolines and Acrylamides for Targeting Dendritic Cell-Specific Intercellular Adhesion Molecule-3-Grabbing Nonintegrin and Mannose-Binding Lectin. <i>Biomacromolecules</i> , <b>2020</b> , 21, 2298-2308	6.9	16
30	Synthetic auxin herbicides: finding the lock and key to weed resistance. <i>Plant Science</i> , <b>2020</b> , 300, 1106315.3		16

29	Ring closing metathesis reactions of $\beta$ -methylene-lactams: application to the synthesis of a simplified phyllostictine analogue with herbicidal activity. <i>Organic and Biomolecular Chemistry</i> , <b>2015</b> , 13, 7655-63	3.9	14
28	The Allelochemical MDCA Inhibits Lignification and Affects Auxin Homeostasis. <i>Plant Physiology</i> , <b>2016</b> , 172, 874-888	6.6	14
27	Advances in Understanding the Mechanism of Action of the Auxin Permease AUX1. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	14
26	Retaining individualities: the photodynamics of self-ordering porphyrin assemblies. <i>Chemical Communications</i> , <b>2016</b> , 52, 1938-41	5.8	11
25	Altered Expression of Auxin-binding Protein 1 Affects Cell Expansion and Auxin Pool Size in Tobacco Cells. <i>Journal of Plant Growth Regulation</i> , <b>2006</b> , 25, 69-78	4.7	11
24	TIRs of joy: new receptors for auxin. <i>BioEssays</i> , <b>2005</b> , 27, 1213-7	4.1	11
23	Seedling developmental defects upon blocking CINNAMATE-4-HYDROXYLASE are caused by perturbations in auxin transport. <i>New Phytologist</i> , <b>2021</b> , 230, 2275-2291	9.8	10
22	Protein retention in the endoplasmic reticulum of insect cells is not compromised by baculovirus infection. <i>Cell Biology International</i> , <b>1996</b> , 20, 413-22	4.5	9
21	The Tetrazole Analogue of the Auxin Indole-3-acetic Acid Binds Preferentially to TIR1 and Not AFB5. <i>ACS Chemical Biology</i> , <b>2018</b> , 13, 2585-2594	4.9	8
20	Multi-Arm Star-Shaped Glycopolymers with Precisely Controlled Core Size and Arm Length. <i>Biomacromolecules</i> , <b>2020</b> , 21, 3736-3744	6.9	8
19	Assaying Auxin Receptor Activity Using SPR Assays with F-Box Proteins and Aux/IAA Degrons. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1497, 159-191	1.4	6
18	Auxin Receptors and Auxin Binding Proteins		6
17	Kinetic Characterisation of a Single Chain Antibody against the Hormone Abscisic Acid: Comparison with Its Parental Monoclonal. <i>PLoS ONE</i> , <b>2016</b> , 11, e0152148	3.7	6
16	Molecular analysis of auxin-specific signal transduction. <i>Plant Growth Regulation</i> , <b>1996</b> , 18, 1-6	3.2	5
15	New fluorescent auxin probes visualise tissue-specific and subcellular distributions of auxin in Arabidopsis. <i>New Phytologist</i> , <b>2021</b> , 230, 535-549	9.8	5
14	A highly selective biosensor with nanomolar sensitivity based on cytokinin dehydrogenase. <i>PLoS ONE</i> , <b>2014</b> , 9, e90877	3.7	4
13	It starts with TIRs. <i>Nature Plants</i> , <b>2018</b> , 4, 410-411	11.5	4
12	Phyllostictine A: total synthesis, structural verification and determination of substructure responsible for plant growth inhibition. <i>Chemical Communications</i> , <b>2018</b> , 54, 7211-7214	5.8	3

11	An in-frame deletion mutation in the degron tail of auxin co-receptor IAA2 confers resistance to the herbicide 2,4-D in <i>Sisymbrium orientale</i>		3
10	The Story of Auxin-Binding Protein 1 (ABP1). <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2021</b> , 13,	10.2	3
9	Generating aptamers towards human sperm cells using massively parallel sequencing. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 413, 5821-5834	4.4	3
8	An in-frame deletion mutation in the degron tail of auxin coreceptor confers resistance to the herbicide 2,4-D in .. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119,	11.5	3
7	Auxin Receptors and Perception <b>2014</b> , 101-116		2
6	Tomographic docking suggests the mechanism of auxin receptor TIR1 selectivity		2
5	Chemical inhibition of auxin inactivation pathway uncovers the metabolic turnover of auxin homeostasis		1
4	A fuzzy encounter complex precedes formation of the fully-engaged TIR1-Aux/IAA auxin co-receptor system		1
3	Hyaluronan (HA)-inspired glycopolymers as molecular tools for studying HA functions. <i>RSC Chemical Biology</i> , <b>2021</b> , 2, 568-576	3	1
2	Growth of plant culture. <i>Trends in Plant Science</i> , <b>2003</b> , 8, 568-9	13.1	
1	Ultrafast spectroscopic investigation of discrete co-assemblies of a Zn-porphyrin polymer conjugate with a hexapyridyl template. <i>Chemical Physics Letters</i> , <b>2021</b> , 777, 138736	2.5	