

# Theresa E B Stradal

## List of Publications by Year in descending order

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90  
papers

8,369  
citations

53660

45  
h-index

49773

87  
g-index

95  
all docs

95  
docs citations

95  
times ranked

9209  
citing authors

#	ARTICLE	IF	CITATIONS
1	The lamellipodium: where motility begins. Trends in Cell Biology, 2002, 12, 112-120.	3.6	809
2	Abi1 is essential for the formation and activation of a WAVE2 signalling complex. Nature Cell Biology, 2004, 6, 319-327.	4.6	364
3	Sra-1 and Nap1 link Rac to actin assembly driving lamellipodia formation. EMBO Journal, 2004, 23, 749-759.	3.5	359
4	Perinuclear Arp2/3-driven actin polymerization enables nuclear deformation to facilitate cell migration through complex environments. Nature Communications, 2016, 7, 10997.	5.8	282
5	c-Met is essential for wound healing in the skin. Journal of Cell Biology, 2007, 177, 151-162.	2.3	275
6	Arp2/3 complex interactions and actin network turnover in lamellipodia. EMBO Journal, 2008, 27, 982-992.	3.5	271
7	Regulation of actin dynamics by WASP and WAVE family proteins. Trends in Cell Biology, 2004, 14, 303-311.	3.6	265
8	Regulation of cell shape by Cdc42 is mediated by the synergic actin-bundling activity of the Eps8-IRSp53 complex. Nature Cell Biology, 2006, 8, 1337-1347.	4.6	230
9	Protein complexes regulating Arp2/3-mediated actin assembly. Current Opinion in Cell Biology, 2006, 18, 4-10.	2.6	230
10	Filopodia Formation in the Absence of Functional WAVE- and Arp2/3-Complexes. Molecular Biology of the Cell, 2006, 17, 2581-2591.	0.9	212
11	Abi1 regulates the activity of N-WASP and WAVE in distinct actin-based processes. Nature Cell Biology, 2005, 7, 969-976.	4.6	201
12	Eps8 controls actin-based motility by capping the barbed ends of actin filaments. Nature Cell Biology, 2004, 6, 1180-1188.	4.6	197
13	FMNL2 Drives Actin-Based Protrusion and Migration Downstream of Cdc42. Current Biology, 2012, 22, 1005-1012.	1.8	184
14	Actin dynamics and turnover in cell motility. Current Opinion in Cell Biology, 2011, 23, 569-578.	2.6	170
15	N-WASP deficiency impairs EGF internalization and actin assembly at clathrin-coated pits. Journal of Cell Science, 2005, 118, 3103-3115.	1.2	155
16	Rac1 Regulates Neuronal Polarization through the WAVE Complex. Journal of Neuroscience, 2010, 30, 6930-6943.	1.7	155
17	Golgi-localized GAP for Cdc42 functions downstream of ARF1 to control Arp2/3 complex and F-actin dynamics. Nature Cell Biology, 2005, 7, 353-364.	4.6	153
18	Filopodia: Complex models for simple rods. International Journal of Biochemistry and Cell Biology, 2009, 41, 1656-1664.	1.2	151

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19	Diversified actin protrusions promote environmental exploration but are dispensable for locomotion of leukocytes. <i>Nature Cell Biology</i> , 2016, 18, 1253-1259.	4.6	150
20	Molecular mechanism of Ena/VASP-mediated actin-filament elongation. <i>EMBO Journal</i> , 2011, 30, 456-467.	3.5	143
21	The bundling activity of vasodilator-stimulated phosphoprotein is required for filopodium formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 7694-7699.	3.3	140
22	Rac function is critical for cell migration but not required for spreading and focal adhesion formation. <i>Journal of Cell Science</i> , 2013, 126, 4572-88.	1.2	139
23	The Abl interactor proteins localize to sites of actin polymerization at the tips of lamellipodia and filopodia. <i>Current Biology</i> , 2001, 11, 891-895.	1.8	138
24	Phosphatidylinositol 4,5-Biphosphate (PIP2)-induced Vesicle Movement Depends on N-WASP and Involves Nck, WIP, and Grb2. <i>Journal of Biological Chemistry</i> , 2002, 277, 37771-37776.	1.6	133
25	Podosome formation in cultured A7r5 vascular smooth muscle cells requires Arp2/3-dependent de-novo actin polymerization at discrete microdomains. <i>Journal of Cell Science</i> , 2003, 116, 4915-4924.	1.2	130
26	RIAM Links the ADAP/SKAP-55 Signaling Module to Rap1, Facilitating T-Cell-Receptor-Mediated Integrin Activation. <i>Molecular and Cellular Biology</i> , 2007, 27, 4070-4081.	1.1	122
27	CH domains revisited. <i>FEBS Letters</i> , 1998, 431, 134-137.	1.3	118
28	FMNL formins boost lamellipodial force generation. <i>Nature Communications</i> , 2017, 8, 14832.	5.8	112
29	Vinculin acts as a sensor in lipid regulation of adhesion-site turnover. <i>Journal of Cell Science</i> , 2005, 118, 1461-1472.	1.2	108
30	Bacteria-Host-Cell Interactions at the Plasma Membrane: Stories on Actin Cytoskeleton Subversion. <i>Developmental Cell</i> , 2005, 9, 3-17.	3.1	108
31	Cortactin Promotes Migration and Platelet-derived Growth Factor-induced Actin Reorganization by Signaling to Rho-GTPases. <i>Molecular Biology of the Cell</i> , 2009, 20, 3209-3223.	0.9	102
32	Kindlin-2 recruits paxillin and Arp2/3 to promote membrane protrusions during initial cell spreading. <i>Journal of Cell Biology</i> , 2017, 216, 3785-3798.	2.3	94
33	IRSp53 Links the Enterohemorrhagic E. coli Effectors Tir and EspFU for Actin Pedestal Formation. <i>Cell Host and Microbe</i> , 2009, 5, 244-258.	5.1	91
34	Filopodia formation induced by active mDia2/Drf3. <i>Journal of Microscopy</i> , 2008, 231, 506-517.	0.8	89
35	The Phosphotyrosine Peptide Binding Specificity of Nck1 and Nck2 Src Homology 2 Domains. <i>Journal of Biological Chemistry</i> , 2006, 281, 18236-18245.	1.6	87
36	Xin repeats define a novel actin-binding motif. <i>Journal of Cell Science</i> , 2004, 117, 5257-5268.	1.2	83

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37	Activation of a RhoA/Myosin II-Dependent but Arp2/3 Complex-Independent Pathway Facilitates Salmonella Invasion. <i>Cell Host and Microbe</i> , 2011, 9, 273-285.	5.1	69
38	Arp2/3 complex is essential for actin network treadmilling as well as for targeting of capping protein and cofilin. <i>Molecular Biology of the Cell</i> , 2013, 24, 2861-2875.	0.9	68
39	Methylation of Salmonella Typhimurium flagella promotes bacterial adhesion and host cell invasion. <i>Nature Communications</i> , 2020, 11, 2013.	5.8	68
40	How distinct Arp2/3 complex variants regulate actin filament assembly. <i>Nature Cell Biology</i> , 2016, 18, 1-3.	4.6	63
41	Free Brick1 Is a Trimeric Precursor in the Assembly of a Functional Wave Complex. <i>PLoS ONE</i> , 2008, 3, e2462.	1.1	63
42	Essential role for Abi1 in embryonic survival and WAVE2 complex integrity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7022-7027.	3.3	62
43	WAVE regulatory complex. <i>Current Biology</i> , 2021, 31, R512-R517.	1.8	60
44	PREL1 provides a link from Ras signalling to the actin cytoskeleton via Ena/VASP proteins. <i>FEBS Letters</i> , 2005, 579, 455-463.	1.3	58
45	Requirements for F-BAR Proteins TOCA-1 and TOCA-2 in Actin Dynamics and Membrane Trafficking during <i>Caenorhabditis elegans</i> Oocyte Growth and Embryonic Epidermal Morphogenesis. <i>PLoS Genetics</i> , 2009, 5, e1000675.	1.5	58
46	Actin dynamics in host-pathogen interaction. <i>FEBS Letters</i> , 2018, 592, 3658-3669.	1.3	54
47	Molecular dissection of <i>Salmonella</i> -induced membrane ruffling versus invasion. <i>Cellular Microbiology</i> , 2010, 12, 84-98.	1.1	52
48	Theoretical Model for Cellular Shapes Driven by Protrusive and Adhesive Forces. <i>PLoS Computational Biology</i> , 2011, 7, e1001127.	1.5	50
49	Flagellin phase-dependent swimming on epithelial cell surfaces contributes to productive <i>Salmonella</i> gut colonisation. <i>Cellular Microbiology</i> , 2017, 19, e12739.	1.1	48
50	Cdc42 and Phosphoinositide 3-Kinase Drive Rac-Mediated Actin Polymerization Downstream of c-Met in Distinct and Common Pathways. <i>Molecular and Cellular Biology</i> , 2007, 27, 6615-6628.	1.1	47
51	Structure of Shigella IpgB2 in Complex with Human RhoA. <i>Journal of Biological Chemistry</i> , 2010, 285, 17197-17208.	1.6	47
52	Src Homology 2-Domain Containing Leukocyte-Specific Phosphoprotein of 76 kDa Is Mandatory for TCR-Mediated Inside-Out Signaling, but Dispensable for CXCR4-Mediated LFA-1 Activation, Adhesion, and Migration of T Cells. <i>Journal of Immunology</i> , 2009, 183, 5756-5767.	0.4	45
53	Pathogen-induced actin filament rearrangement in infectious diseases. <i>Journal of Pathology</i> , 2004, 204, 396-406.	2.1	41
54	Ca <sup>2+</sup> -dependent Association of S100A6 (Calcyclin) with the Plasma Membrane and the Nuclear Envelope. <i>Journal of Biological Chemistry</i> , 1999, 274, 31593-31596.	1.6	38

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55	The cytoskeletal regulator HEM1 governs B cell development and prevents autoimmunity. <i>Science Immunology</i> , 2020, 5, .	5.6	37
56	JMY is involved in anterograde vesicle trafficking from the trans-Golgi network. <i>European Journal of Cell Biology</i> , 2014, 93, 194-204.	1.6	35
57	The EHEC-host interactome reveals novel targets for the translocated intimin receptor. <i>Scientific Reports</i> , 2014, 4, 7531.	1.6	35
58	Large-Scale Analysis of Protein-Protein Interactions Using Cellulose-Bound Peptide Arrays. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2008, 110, 115-152.	0.6	33
59	FMNL2 and -3 regulate Golgi architecture and anterograde transport downstream of Cdc42. <i>Scientific Reports</i> , 2017, 7, 9791.	1.6	33
60	Preussilides A-F, Bicyclic Polyketides from the Endophytic Fungus <i>Preussia similis</i> with Antiproliferative Activity. <i>Journal of Natural Products</i> , 2017, 80, 1531-1540.	1.5	32
61	Induced Arp2/3 Complex Depletion Increases FMNL2/3 Formin Expression and Filopodia Formation. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 634708.	1.8	32
62	Structural Basis for Complex Formation between Human IRSp53 and the Translocated Intimin Receptor Tir of Enterohemorrhagic <i>E. coli</i> . <i>Structure</i> , 2011, 19, 1294-1306.	1.6	30
63	Visualization of translocons in <i>Yersinia</i> type III protein secretion machines during host cell infection. <i>PLoS Pathogens</i> , 2018, 14, e1007527.	2.1	29
64	The Effect of Cytochalasins on the Actin Cytoskeleton of Eukaryotic Cells and Preliminary Structure-Activity Relationships. <i>Biomolecules</i> , 2019, 9, 73.	1.8	29
65	Differential functions of WAVE regulatory complex subunits in the regulation of actin-driven processes. <i>European Journal of Cell Biology</i> , 2017, 96, 715-727.	1.6	28
66	Lamellipodin tunes cell migration by stabilizing protrusions and promoting adhesion formation. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	28
67	Dendritic cell actin dynamics control contact duration and priming efficiency at the immunological synapse. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	25
68	Mapping the Zinc Ligands of S100A2 by Site-directed Mutagenesis. <i>Journal of Biological Chemistry</i> , 2000, 275, 13219-13227.	1.6	24
69	Signalling Pathways Controlling Cellular Actin Organization. <i>Handbook of Experimental Pharmacology</i> , 2016, 235, 153-178.	0.9	17
70	Loss of Hem1 disrupts macrophage function and impacts migration, phagocytosis, and integrin-mediated adhesion. <i>Current Biology</i> , 2021, 31, 2051-2064.e8.	1.8	17
71	Crystal structure of bacterial cytotoxic necrotizing factor CNF <sub>Y</sub> reveals molecular building blocks for intoxication. <i>EMBO Journal</i> , 2021, 40, e105202.	3.5	14
72	Diversely Functionalised Cytochalasins through Mutasynthesis and Semi-Synthesis. <i>Chemistry - A European Journal</i> , 2020, 26, 13578-13583.	1.7	13

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73	Spatiotemporal control of FlgZ activity impacts <i>Pseudomonas aeruginosa</i> flagellar motility. <i>Molecular Microbiology</i> , 2019, 111, 1544-1557.	1.2	12
74	New Peptaibiotics and a Cyclodepsipeptide from <i>Ijuhya vitellina</i> : Isolation, Identification, Cytotoxic and Nematicidal Activities. <i>Antibiotics</i> , 2020, 9, 132.	1.5	12
75	RhoG and Cdc42 can contribute to Rac-dependent lamellipodia formation through WAVE regulatory complex-binding. <i>Small GTPases</i> , 2021, 12, 122-132.	0.7	12
76	Type III Secreted Virulence Factors Manipulating Signaling to Actin Dynamics. <i>Current Topics in Microbiology and Immunology</i> , 2016, 399, 175-199.	0.7	11
77	Parallel kinase pathways stimulate actin polymerization at depolarized mitochondria. <i>Current Biology</i> , 2022, 32, 1577-1592.e8.	1.8	11
78	Microtubules as Platforms for Assaying Actin Polymerization In Vivo. <i>PLoS ONE</i> , 2011, 6, e19931.	1.1	10
79	A novel contractility pathway operating in <i>Salmonella</i> invasion. <i>Virulence</i> , 2012, 3, 81-86.	1.8	10
80	High-Resolution X-Ray Structure of the Trimeric Scar/WAVE-Complex Precursor Brk1. <i>PLoS ONE</i> , 2011, 6, e21327.	1.1	10
81	Poxviruses Taking a Ride on Actin: New Users of Known Hardware. <i>Cell Host and Microbe</i> , 2009, 6, 497-499.	5.1	8
82	Molecular Regulation of Cytoskeletal Rearrangements During T <sub>H</sub> 1 Cell Signalling. , 2006, 43, 219-244.		7
83	SMER28 Attenuates PI3K/mTOR Signaling by Direct Inhibition of PI3K p110 Delta. <i>Cells</i> , 2022, 11, 1648.	1.8	7
84	Host-induced spermidine production in motile <i>Pseudomonas aeruginosa</i> triggers phagocytic uptake. <i>ELife</i> , 2020, 9, .	2.8	6
85	Antiproliferative and Cytotoxic Cytochalasins from <i>Sparticola triseptata</i> Inhibit Actin Polymerization and Aggregation. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 560.	1.5	5
86	xCELLanalyzer: A Framework for the Analysis of Cellular Impedance Measurements for Mode of Action Discovery. <i>SLAS Discovery</i> , 2019, 24, 213-223.	1.4	3
87	Regulation of MRTF-A by JMY via a nucleation-independent mechanism. <i>Cell Communication and Signaling</i> , 2018, 16, 86.	2.7	2
88	WASP stings into matrix to lead immune cell migration. <i>Journal of Cell Biology</i> , 2022, 221, .	2.3	2
89	Host-Pathogen Interactions and Cell Motility: Learning from Bacteria. , 2005, , 205-236.		0
90	Featuring Theresia Stradal. <i>FEBS Letters</i> , 2006, 580, 2810-2810.	1.3	0