Yingxiao Wang

List of Publications by Year
in descending order

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		66343	69250
146	6,825	42	77
papers	citations	h-index	g-index

154	154	154	8904
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Visualizing the mechanical activation of Src. Nature, 2005, 434, 1040-1045.	27.8	632
2	Rapid signal transduction in living cells is a unique feature of mechanotransduction. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6626-6631.	7.1	383
3	Fluorescence Proteins, Live-Cell Imaging, and Mechanobiology: Seeing Is Believing. Annual Review of Biomedical Engineering, 2008, 10, 1-38.	12.3	273
4	The role of the dynamics of focal adhesion kinase in the mechanotaxis of endothelial cells. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 3546-3551.	7.1	256
5	Transient tissue priming via ROCK inhibition uncouples pancreatic cancer progression, sensitivity to chemotherapy, and metastasis. Science Translational Medicine, 2017, 9, .	12.4	208
6	Photocaged DNAzymes as a General Method for Sensing Metal Ions in Living Cells. Angewandte Chemie - International Edition, 2014, 53, 13798-13802.	13.8	181
7	Mechanogenetics for the remote and noninvasive control of cancer immunotherapy. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 992-997.	7.1	181
8	CAF hierarchy driven by pancreatic cancer cell p53-status creates a pro-metastatic and chemoresistant environment via perlecan. Nature Communications, 2019, 10, 3637.	12.8	170
9	Determination of hierarchical relationship of Src and Rac at subcellular locations with FRET biosensors. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 14353-14358.	7.1	164
10	Matrix softness regulates plasticity of tumour-repopulating cells via H3K9 demethylation and Sox2 expression. Nature Communications, 2014, 5, 4619.	12.8	162
11	Distinct biophysical mechanisms of focal adhesion kinase mechanoactivation by different extracellular matrix proteins. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19372-19377.	7.1	155
12	FAK and paxillin dynamics at focal adhesions in the protrusions of migrating cells. Scientific Reports, 2014, 4, 6024.	3.3	152
13	Dynamic Visualization of Î±-Catenin Reveals Rapid, Reversible Conformation Switching between Tension States. Current Biology, 2015, 25, 218-224.	3.9	141
14	Effects of Flow Patterns on the Localization and Expression of VE-Cadherin at Vascular Endothelial Cell Junctions: In vivo and in vitro Investigations. Journal of Vascular Research, 2005, 42, 77-89.	1.4	133
15	Substrate rigidity regulates Ca²⁺ oscillation via RhoA pathway in stem cells. Journal of Cellular Physiology, 2009, 218, 285-293.	4.1	128
16	The primary cilium functions as a mechanical and calcium signaling nexus. Cilia, 2015, 4, 7.	1.8	118
17	Interplay between integrins and FLK-1 in shear stress-induced signaling. American Journal of Physiology - Cell Physiology, 2002, 283, C1540-C1547.	4.6	117
18	Intravital FLIM-FRET Imaging Reveals Dasatinib-Induced Spatial Control of Src in Pancreatic Cancer. Cancer Research, 2013, 73, 4674-4686.	0.9	111

#	ARTICLE	IF	CITATIONS
19	Detection of focal adhesion kinase activation at membrane microdomains by fluorescence resonance energy transfer. Nature Communications, 2011, 2, 406.	12.8	107
20	Simultaneous Visualization of Protumorigenic Src and MT1-MMP Activities with Fluorescence Resonance Energy Transfer. Cancer Research, 2010, 70, 2204-2212.	0.9	102
21	Engineering light-controllable CAR T cells for cancer immunotherapy. Science Advances, 2020, 6, eaay9209.	10.3	97
22	Integrins regulate VE-cadherin and catenins: Dependence of this regulation on Src, but not on Ras. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 1774-1779.	7.1	91
23	Distinct mechanisms regulating mechanical force-induced Ca2+ signals at the plasma membrane and the ER in human MSCs. ELife, 2015, 4, e04876.	6.0	90
24	Control of the activity of CAR-T cells within tumours via focused ultrasound. Nature Biomedical Engineering, 2021, 5, 1336-1347.	22.5	82
25	Visualization of Polarized Membrane Type 1 Matrix Metalloproteinase Activity in Live Cells by Fluorescence Resonance Energy Transfer Imaging. Journal of Biological Chemistry, 2008, 283, 17740-17748.	3.4	78
26	3D Traction Stresses Activate Protease-Dependent Invasion of Cancer Cells. Biophysical Journal, 2014, 107, 2528-2537.	0.5	77
27	Visualization of Src Activity at Different Compartments of the Plasma Membrane by FRET Imaging. Chemistry and Biology, 2009, 16, 48-57.	6.0	76
28	Rapid Activation of Rac GTPase in Living Cells by Force Is Independent of Src. PLoS ONE, 2009, 4, e7886.	2.5	73
29	Integrin Molecular Tension within Motile Focal Adhesions. Biophysical Journal, 2015, 109, 2259-2267.	0.5	72
30	Nuclear envelope proteins modulate proliferation of vascular smooth muscle cells during cyclic stretch application. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5293-5298.	7.1	68
31	The Spatiotemporal Pattern of Src Activation at Lipid Rafts Revealed by Diffusion-Corrected FRET Imaging. PLoS Computational Biology, 2008, 4, e1000127.	3.2	64
32	Intravital Imaging to Monitor Therapeutic Response in Moving Hypoxic Regions Resistant to PI3K Pathway Targeting in Pancreatic Cancer. Cell Reports, 2018, 23, 3312-3326.	6.4	61
33	Mechanotransduction at focal adhesions: from physiology to cancer development. Journal of Cellular and Molecular Medicine, 2013, 17, 597-604.	3.6	58
34	Micro/nano-fabrication technologies for cell biology. Medical and Biological Engineering and Computing, 2010, 48, 1023-1032.	2.8	57
35	Shear stress and VEGF activate IKK via the Flk-1/Cbl/Akt signaling pathway. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H685-H692.	3.2	55
36	N-cadherin regulates spatially polarized signals through distinct p120ctn and Î²-catenin-dependent signalling pathways. Nature Communications, 2013, 4, 1589.	12.8	52

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37	Activatable and Cell-Penetrable Multiplex FRET Nanosensor for Profiling MT1-MMP Activity in Single Cancer Cells. Nano Letters, 2015, 15, 5025-5032.	9.1	50
38	Application of FRET Biosensors in Mechanobiology and Mechanopharmacological Screening. Frontiers in Bioengineering and Biotechnology, 2020, 8, 595497.	4.1	50
39	Two distinct phases of calcium signalling under flow. Cardiovascular Research, 2011, 91, 124-133.	3.8	48
40	Coordinated histone modifications and chromatin reorganization in a single cell revealed by FRET biosensors. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E11681-E11690.	7.1	48
41	Matrix-transmitted paratensile signaling enables myofibroblast <scp>â€“</scp> fibroblast cross talk in fibrosis expansion. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10832-10838.	7.1	48
42	Fluorescence Resonance Energy Transfer Biosensors for Cancer Detection and Evaluation of Drug Efficacy. Clinical Cancer Research, 2010, 16, 3822-3824.	7.0	46
43	Plectin contributes to mechanical properties of living cells. American Journal of Physiology - Cell Physiology, 2009, 296, C868-C877.	4.6	45
44	Direct and sustained intracellular delivery of exogenous molecules using acoustic-transfection with high frequency ultrasound. Scientific Reports, 2016, 6, 20477.	3.3	44
45	VEâ€cadherin transâ€interactions modulate Rac activation and enhancement of lung endothelial barrier by iloprost. Journal of Cellular Physiology, 2012, 227, 3405-3416.	4.1	43
46	Photocaged DNAzymes as a General Method for Sensing Metal Ions in Living Cells. Angewandte Chemie, 2014, 126, 14018-14022.	2.0	43
47	Real-Time Analysis of Calcium Signals during the Early Phase of T Cell Activation Using a Genetically Encoded Calcium Biosensor. Journal of Immunology, 2016, 196, 1471-1479.	0.8	43
48	Selective adapter recruitment and differential signaling networks by VEGF vs. shear stress. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 8875-8879.	7.1	42
49	Acoustic-transfection for genomic manipulation of single-cells using high frequency ultrasound. Scientific Reports, 2017, 7, 5275.	3.3	40
50	Antagonism between binding site affinity and conformational dynamics tunes alternative cis-interactions within Shp2. Nature Communications, 2013, 4, 2037.	12.8	38
51	RhoA and Membrane Fluidity Mediates the Spatially Polarized Src/FAK Activation in Response to Shear Stress. Scientific Reports, 2014, 4, 7008.	3.3	38
52	FRET and mechanobiology. Integrative Biology (United Kingdom), 2009, 1, 565-573.	1.3	36
53	Removing physiological motion from intravital and clinical functional imaging data. ELife, 2018, 7, .	6.0	34
54	Calcium Signaling in Live Cells on Elastic Gels under Mechanical Vibration at Subcellular Levels. PLoS ONE, 2011, 6, e26181.	2.5	33

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55	Involvement of a Rac1-Dependent Macropinocytosis Pathway in Plasmid DNA Delivery by Electrotransfection. Molecular Therapy, 2017, 25, 803-815.	8.2	33
56	Engineered proteins with sensing and activating modules for automated reprogramming of cellular functions. Nature Communications, 2017, 8, 477.	12.8	33
57	Quantitative FRET Imaging to Visualize the Invasiveness of Live Breast Cancer Cells. PLoS ONE, 2013, 8, e58569.	2.5	31
58	Unphosphorylated STAT3 in heterochromatin formation and tumor suppression in lung cancer. BMC Cancer, 2020, 20, 145.	2.6	30
59	Shear stress-induced c-fos activation is mediated by Rho in a calcium-dependent manner. Biochemical and Biophysical Research Communications, 2003, 303, 548-555.	2.1	28
60	An AND-Gated Drug and Photoactivatable Cre-loxP System for Spatiotemporal Control in Cell-Based Therapeutics. ACS Synthetic Biology, 2019, 8, 2359-2371.	3.8	26
61	Sensitive FRET Biosensor Reveals Fyn Kinase Regulation by Submembrane Localization. ACS Sensors, 2019, 4, 76-86.	7.8	26
62	Visualization of Src and FAK Activity during the Differentiation Process from HMSCs to Osteoblasts. PLoS ONE, 2012, 7, e42709.	2.5	25
63	Biophysical basis underlying dynamic Lck activation visualized by ZapLck FRET biosensor. Science Advances, 2019, 5, eaau2001.	10.3	25
64	Prolonged Mechanical Stretch Initiates Intracellular Calcium Oscillations in Human Mesenchymal Stem Cells. PLoS ONE, 2014, 9, e109378.	2.5	25
65	Role of Cbl in Shear-Activation of PI 3-Kinase and JNK in Endothelial Cells. Biochemical and Biophysical Research Communications, 2002, 292, 892-899.	2.1	24
66	The role of mechanical tension on lipid raft dependent PDGF-induced TRPC6 activation. Biomaterials, 2014, 35, 2868-2877.	11.4	24
67	FRET-based Visualization of PDGF Receptor Activation at Membrane Microdomains. Scientific Reports, 2017, 7, 1593.	3.3	24
68	Directed Evolution to Engineer Monobody for FRET Biosensor Assembly and Imaging at Live-Cell Surface. Cell Chemical Biology, 2018, 25, 370-379.e4.	5.2	23
69	Intravital imaging technology guides FAK-mediated priming in pancreatic cancer precision medicine according to Merlin status. Science Advances, 2021, 7, eabh0363.	10.3	23
70	Live cell imaging of mechanotransduction. Journal of the Royal Society Interface, 2010, 7, S365-75.	3.4	22
71	Computational Analysis of the Spatiotemporal Coordination of Polarized PI3K and Rac1 Activities in Micro-Patterned Live Cells. PLoS ONE, 2011, 6, e21293.	2.5	22
72	Bone Physiology, Biomaterial and the Effect of Mechanical/Physical Microenvironment on Mesenchymal Stem Cell Osteogenesis. Cellular and Molecular Bioengineering, 2011, 4, 579-590.	2.1	22

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73	Nuclear envelope proteins Nesprin2 and LaminA regulate proliferation and apoptosis of vascular endothelial cells in response to shear stress. Biochimica Et Biophysica Acta - Molecular Cell Research, 2015, 1853, 1165-1173.	4.1	22
74	In-situ coupling between kinase activities and protein dynamics within single focal adhesions. Scientific Reports, 2016, 6, 29377.	3.3	22
75	Shear Stress Regulates the Flk-1/Cbl/PI3K/NF-Î²B Pathway Via Actin and Tyrosine Kinases. Cellular and Molecular Bioengineering, 2009, 2, 341-350.	2.1	21
76	A Perspective of Epigenetic Regulation in Radiotherapy. Frontiers in Cell and Developmental Biology, 2021, 9, 624312.	3.7	19
77	The antagonistic roles of PDGF and integrin Î±vÎ²3 in regulating ROS production at focal adhesions. Biomaterials, 2013, 34, 3807-3815.	11.4	18
78	Electroporation-delivered fluorescent protein biosensors for probing molecular activities in cells without genetic encoding. Chemical Communications, 2014, 50, 11536-11539.	4.1	17
79	Acoustic mechanogenetics. Current Opinion in Biomedical Engineering, 2018, 7, 64-70.	3.4	17
80	Mechanical Loading in Osteocytes Induces Formation of a Src/Pyk2/MBD2 Complex That Suppresses Anabolic Gene Expression. PLoS ONE, 2014, 9, e97942.	2.5	17
81	Nanoporous Silica-Based Protocells at Multiple Scales for Designs of Life and Nanomedicine. Life, 2015, 5, 214-229.	2.4	16
82	Roles of microfilaments and microtubules in paxillin dynamics. Biochemical and Biophysical Research Communications, 2006, 348, 1463-1471.	2.1	15
83	Live Cell Imaging of Src/FAK Signaling by FRET. Cellular and Molecular Bioengineering, 2011, 4, 138-147.	2.1	15
84	A FRET-Based Biosensor for Imaging SYK Activities in Living Cells. Cellular and Molecular Bioengineering, 2011, 4, 670-677.	2.1	15
85	Deciphering and engineering chromodomain-methyllysine peptide recognition. Science Advances, 2018, 4, eaau1447.	10.3	15
86	Decipher the dynamic coordination between enzymatic activity and structural modulation at focal adhesions in living cells. Scientific Reports, 2014, 4, 5756.	3.3	14
87	Imaging Spatiotemporal Activities of ZAP-70 in Live T Cells Using a FRET-Based Biosensor. Annals of Biomedical Engineering, 2016, 44, 3510-3521.	2.5	14
88	Engineering CAR T cells for enhanced efficacy and safety. APL Bioengineering, 2022, 6, 011502.	6.2	14
89	Analysis of Integrin Signaling by Fluorescence Resonance Energy Transfer. Methods in Enzymology, 2007, 426, 177-201.	1.0	13
90	The regulation of Î²-adrenergic receptor-mediated PKA activation by substrate stiffness via microtubule dynamics in human MSCs. Biomaterials, 2014, 35, 8348-8356.	11.4	13

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91	Epigenetic regulation and mechanobiology. Biophysics Reports, 2020, 6, 33-48.	0.8	13
92	Platelet-derived microvesicles induce calcium oscillations and promote VSMC migration via TRPV4. Theranostics, 2021, 11, 2410-2423.	10.0	13
93	Pathological cyclic strain promotes proliferation of vascular smooth muscle cells via the ACTH/ERK/STAT3 pathway. Journal of Cellular Biochemistry, 2018, 119, 8260-8270.	2.6	11
94	Genetically Encoded FRET Biosensor for Visualizing EphA4 Activity in Different Compartments of the Plasma Membrane. ACS Sensors, 2019, 4, 294-300.	7.8	11
95	A Femtomol Range FRET Biosensor Reports Exceedingly Low Levels of Cell Surface Furin: Implications for the Processing of Anthrax Protective Antigen. PLoS ONE, 2010, 5, e11305.	2.5	10
96	Rapid and Localized Mechanical Stimulation and Adhesion Assay: TRPM7 Involvement in Calcium Signaling and Cell Adhesion. PLoS ONE, 2015, 10, e0126440.	2.5	10
97	Subcellular domain-dependent molecular hierarchy of SFK and FAK in mechanotransduction and cytokine signaling. Scientific Reports, 2017, 7, 9033.	3.3	10
98	Integration of FRET and sequencing to engineer kinase biosensors from mammalian cell libraries. Nature Communications, 2021, 12, 5031.	12.8	10
99	The Effect of Differentiation Induction on FAK and Src Activity in Live HMSCs Visualized by FRET. PLoS ONE, 2013, 8, e72233.	2.5	10
100	Mechanosensor Piezo1 mediates bimodal patterns of intracellular calcium and <scp>FAK</scp> signaling. EMBO Journal, 2022, 41, .	7.8	10
101	Dispersion-Relation Fluorescence Spectroscopy. Physical Review Letters, 2012, 109, 188104.	7.8	9
102	Single-Cell Imaging of Mechanotransduction in Endothelial Cells. Progress in Molecular Biology and Translational Science, 2014, 126, 25-51.	1.7	9
103	Mechanogenetics for cellular engineering and cancer immunotherapy. Current Opinion in Biotechnology, 2020, 66, 88-94.	6.6	9
104	FRET-Based Ca2+ Biosensor Single Cell Imaging Interrogated by High-Frequency Ultrasound. Sensors, 2020, 20, 4998.	3.8	9
105	Differential RhoA Dynamics in Migratory and Stationary Cells Measured by FRET and Automated Image Analysis. PLoS ONE, 2008, 3, e4082.	2.5	9
106	Laser Tweezers in the Study of Mechanobiology in Live Cells. Methods in Cell Biology, 2007, 82, 497-523.	1.1	8
107	Multi-scale cellular engineering: From molecules to organ-on-a-chip. APL Bioengineering, 2020, 4, 010906.	6.2	8
108	Phase Differential Enhancement of FLIM to Distinguish FRET Components of a Biosensor for Monitoring Molecular Activity of Membrane Type 1 Matrix Metalloproteinase in Live Cells. Journal of Fluorescence, 2011, 21, 1763-1777.	2.5	7

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109	Laserâ€induced shockwave paired with <scp>FRET</scp>: A method to study cell signaling. Microscopy Research and Technique, 2015, 78, 195-199.	2.2	7
110	Visualizing Spatiotemporal Dynamics of Intercellular Mechanotransmission upon Wounding. ACS Photonics, 2018, 5, 3565-3574.	6.6	7
111	Matrix Rigidityâ€Dependent Regulation of Ca²⁺ at Plasma Membrane Microdomains by FAK Visualized by Fluorescence Resonance Energy Transfer. Advanced Science, 2019, 6, 1801290.	11.2	7
112	Phase separation and histone epigenetics in genome regulation. Current Opinion in Solid State and Materials Science, 2021, 25, 100892.	11.5	6
113	Genetically Encoded Fluorescent Biosensors for Live-Cell Imaging of MT1-MMP Protease Activity. Methods in Molecular Biology, 2014, 1071, 163-174.	0.9	6
114	Visualizing the Effect of Microenvironment on the Spatiotemporal RhoA and Src Activities in Living Cells by FRET. Small, 2009, 5, 1453-1459.	10.0	5
115	Tracking the Dynamic Histone Methylation of H3K27 in Live Cancer Cells. ACS Sensors, 2021, 6, 4369-4378.	7.8	5
116	FRET imaging of calcium signaling in live cells in the microenvironment. Integrative Biology (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.3	4
117	Subcellular and Dynamic Coordination between Src Activity and Cell Protrusion in Microenvironment. Scientific Reports, 2015, 5, 12963.	3.3	4
118	Fluocell for Ratiometric and High-Throughput Live-Cell Image Visualization and Quantitation. Frontiers in Physics, 2019, 7, .	2.1	4
119	Optogenetic Control for Investigating Subcellular Localization of Fyn Kinase Activity in Single Live Cells. Journal of Molecular Biology, 2020, 432, 1901-1909.	4.2	4
120	Editorial Note: Molecular Imaging and Mechanobiology. Cellular and Molecular Bioengineering, 2011, 4, 123-124.	2.1	3
121	Cellular and Molecular Bioengineering: A Tipping Point. Cellular and Molecular Bioengineering, 2012, 5, 239-253.	2.1	3
122	Protein circuits reprogram cells. Nature Chemical Biology, 2019, 15, 96-97.	8.0	3
123	Endothelial microparticles induced by cyclic stretch activate Src and modulate cell apoptosis. FASEB Journal, 2020, 34, 13586-13596.	0.5	3
124	Editorial: Understanding molecular interactions that underpin vascular mechanobiology. APL Bioengineering, 2021, 5, 030401.	6.2	3
125	Monocytes engineered with <scp>iSNAP</scp> inhibit human <scp>Bâ€lymphoma</scp> progression. Bioengineering and Translational Medicine, 2022, 7, .	7.1	3
126	Perspectives of FRET Imaging to Study Epigenetics and Mechanobiology in the Nucleus. , 2016, , 143-161.		2

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127	Engineering Molecular Machines for the Control of Cellular Functions for Diagnostics and Therapeutics. Advanced Functional Materials, 2020, 30, 1904345.	14.9	2
128	Fluorescence Live-Cell Imaging: Principles and Applications in Mechanobiology. , 2008, , 65-84.		1
129	Application of FRET biosensors and computational analysis for live cell imaging. Proceedings of SPIE, 2009, , .	0.8	1
130	Molecular signaling observer and predictor: A framework for closed-loop control of cell behaviors having long time delay. , 2011, , .		1
131	Polarizing CD8+ Central Memory T Cells and Th1 Cells By Lenalidomide Contributes to the Antitumor Function of CD19 CAR-T Cells in Killing Diffused Large B Cell Lymphoma in Vitro. Blood, 2016, 128, 4190-4190.	1.4	1
132	FÃ¶rster Resonance Energy Transfer-Based Single-Cell Imaging Reveals Piezo1-Induced Ca2+ Flux Mediates Membrane Ruffling and Cell Survival. Frontiers in Cell and Developmental Biology, 2022, 10, .	3.7	1
133	<title>On the way to subcellular imaging of mechanotransduction in the developing vasculature</title>. , 2007, , .		0
134	The application of FRET biosensors to visualize Src activation. , 2008, , .		0
135	Editorial Note for the Special Issue in Honor of Professor Shu Chienâ€™s 80th Birthday. Cellular and Molecular Bioengineering, 2011, 4, 505-506.	2.1	0
136	Ultrasonic stimulation of single bovine aortic endothelial cells at 1GHz. , 2012, , .		0
137	Molecular signaling in live cells studied by FRET. , 2012, , .		0
138	Nanotechnologies and FRET imaging in live cells. , 0, , 3-14.		0
139	Programmable delivery of macromolecules using high frequency ultrasound. , 2015, , .		0
140	Optimization of input parameters of acoustic-transfection for the intracellular delivery of macromolecules using FRET-based biosensors. , 2016, , .		0
141	Notice of Removal: Acoustic-transfection for gene editing using high frequency ultrasound. , 2017, , .		0
142	Roles of cytoskeleton in the localization and tyrosine phosphorylation of paxillin in endothelial cells. FASEB Journal, 2006, 20, A1167.	0.5	0
143	Dynamics of focal adhesion kinase and paxillin in lamellipodial protrusion of migrating endothelial cells. FASEB Journal, 2012, 26, 1129.13.	0.5	0
144	Focal adhesion kinase leads paxillin in the assembly of nascent focal adhesions in lamellipodial protrusions of migrating endothelial cells. FASEB Journal, 2015, 29, 797.5.	0.5	0

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145	1. A light inducible gene activation system toward controllable cellâ€based therapeutics. FASEB Journal, 2018, 32, 804.62.	0.5	0
146	Engineering A Hybrid FRET Biosensor to Study Proteolytic Activities of MT1â€MMP. FASEB Journal, 2018, 32, 657.20.	0.5	0