Steven C Huber

List of Publications by Year
in descending order

46 papers	2,853 citations	201575 27 h-index	223716 46 g-index
102 all docs	102 docs citations	102 times ranked	2968 citing authors

#	Article	IF	Citations
1	Sequential Transphosphorylation of the BRI1/BAK1 Receptor Kinase Complex Impacts Early Events in Brassinosteroid Signaling. Developmental Cell, 2008, 15, 220-235.	3.1	485
2	Tyrosine phosphorylation of the BRI1 receptor kinase emerges as a component of brassinosteroid signaling in <i>Arabidopsis</i>. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 658-663.	3.3	247
3	The inhibitor protein of phosphorylated nitrate reductase from spinach (Spinacia oleracea) leaves is a 14-3-3 protein. FEBS Letters, 1996, 387, 127-131.	1.3	156
4	A Bacterial Tyrosine Phosphatase Inhibits Plant Pattern Recognition Receptor Activation. Science, 2014, 343, 1509-1512.	6.0	152
5	Phosphorylation of Serine-15 of Maize Leaf Sucrose Synthase (Occurrence in Vivo and Possible) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.3	150
6	Site-specific regulatory interaction between spinach leaf sucrose-phosphate synthase and 14-3-3 proteins. FEBS Letters, 1998, 435, 110-114.	1.3	148
7	14-3-3 proteins associate with the regulatory phosphorylation site of spinach leaf nitrate reductase in an isoform-specific manner and reduce dephosphorylation of Ser-543 by endogenous protein phosphatases. FEBS Letters, 1996, 398, 26-30.	1.3	141
8	Regulation of a Plant SNF1-Related Protein Kinase by Glucose-6-Phosphate. Plant Physiology, 2000, 123, 403-412.	2.3	116
9	Membrane association of sucrose synthase: changes during the graviresponse and possible control by protein phosphorylation. FEBS Letters, 1997, 420, 151-155.	1.3	110
10	Numerous posttranslational modifications provide opportunities for the intricate regulation of metabolic enzymes at multiple levels. Current Opinion in Plant Biology, 2004, 7, 318-322.	3.5	95
11	Identification of sucrose synthase as an actin-binding protein. FEBS Letters, 1998, 430, 205-208.	1.3	82
12	Revisiting paradigms of Ca2+ signaling protein kinase regulation in plants. Biochemical Journal, 2018, 475, 207-223.	1.7	61
13	Effects of CO2 enrichment on photosynthesis and photosynthate partitioning in soybean (Glycine max) leaves. Physiologia Plantarum, 1984, 62, 95-101.	2.6	56
14	Identification of large variation in the photosynthetic induction response among 37 soybean [Glycine max (L.) Merr.] genotypes that is not correlated with steady-state photosynthetic capacity. Photosynthesis Research, 2017, 131, 305-315.	1.6	49
15	Autophosphorylation-based Calcium (Ca2+) Sensitivity Priming and Ca2+/Calmodulin Inhibition of Arabidopsis thaliana Ca2+-dependent Protein Kinase 28 (CPK28). Journal of Biological Chemistry, 2017, 292, 3988-4002.	1.6	48
16	Tyrosine Phosphorylation of the BRI1 Receptor Kinase Occurs via a Post-Translational Modification and is Activated by the Juxtamembrane Domain. Frontiers in Plant Science, 2012, 3, 175.	1.7	47
17	Allosteric Control of a Plant Receptor Kinase through S-Glutathionylation. Biophysical Journal, 2017, 113, 2354-2363.	0.2	47
18	Spinach leaf sucrose phosphate synthase. FEBS Letters, 1983, 153, 293-297.	1.3	46

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19	Molecular dynamics simulations reveal the conformational dynamics of Arabidopsis thaliana BRI1 and BAK1 receptor-like kinases. Journal of Biological Chemistry, 2017, 292, 12643-12652.	1.6	45
20	Site-directed mutagenesis of serine 158 demonstrates its role in spinach leaf sucrose-phosphate synthase modulation. Plant Journal, 1999, 17, 407-413.	2.8	42
21	The brassinosteroid receptor kinase, BRI1, plays a role in seed germination and the release of dormancy by cold stratification. Journal of Plant Physiology, 2019, 241, 153031.	1.6	42
22	Increased temperatures may safeguard the nutritional quality of crops under future elevated <scp>CO</scp>₂ concentrations. Plant Journal, 2019, 97, 872-886.	2.8	41
23	Phosphorylation-dependent subfunctionalization of the calcium-dependent protein kinase CPK28. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	39
24	Photosynthesis, reserve mobilization and enzymes of sucrose metabolism in soybean (Glycine max) cotyledons. Physiologia Plantarum, 1987, 70, 537-543.	2.6	38
25	Glutaredoxin AtGRXC2 catalyses inhibitory glutathionylation of <i>Arabidopsis</i> BRI1-associated receptor-like kinase 1 (BAK1) <i>inÂvitro</i>. Biochemical Journal, 2015, 467, 399-413.	1.7	37
26	Isolation and characterization of multiple forms of maize leaf sucrose-phosphate synthase. Physiologia Plantarum, 1987, 70, 653-658.	2.6	35
27	CDPKs are dualâ€specificity protein kinases and tyrosine autophosphorylation attenuates kinase activity. FEBS Letters, 2012, 586, 4070-4075.	1.3	34
28	Diurnal changes in sucrose phosphate synthase activity in leaves. Physiologia Plantarum, 1985, 64, 81-87.	2.6	28
29	Canopy position has a profound effect on soybean seed composition. PeerJ, 2016, 4, e2452.	0.9	28
30	Metabolic activators of spinach leaf nitrate reductase: Effects on enzymatic activity and dephosphorylation by endogenous phosphatases. Planta, 1995, 196, 180.	1.6	23
31	In vivo evidence for a regulatory role of phosphorylation of <i>Arabidopsis</i> Rubisco activase at the Thr78 site. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 18723-18731.	3.3	22
32	Substrates and inorganic phosphate control: the light activation of NADP-glyceraldehyde-3-phosphate dehydrogenase and phosphoribulokinase in barley (Hordeum vulgare) chloroplasts. FEBS Letters, 1978, 92, 12-16.	1.3	19
33	Control of galactosyl-sugar metabolism in relation to rate of germination. Physiologia Plantarum, 1983, 59, 387-392.	2.6	19
34	The Carboxy-terminus of BAK1 regulates kinase activity and is required for normal growth of Arabidopsis. Frontiers in Plant Science, 2014, 5, 16.	1.7	15
35	The Plastid Casein Kinase 2 Phosphorylates Rubisco Activase at the Thr-78 Site but Is Not Essential for Regulation of Rubisco Activation State. Frontiers in Plant Science, 2016, 7, 404.	1.7	15
36	Spinach leaf 6-phosphofructo-2-kinase. FEBS Letters, 1987, 213, 375-380.	1.3	14

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37	Grand Challenges in Plant Physiology: The Underpinning of Translational Research. Frontiers in Plant Science, 2011, 2, 48.	1.7	13
38	Salt Activation of Sucrose-Phosphate Synthase from Darkened Leaves of Maize and Other C-4 Plants. Plant and Cell Physiology, 1991, 32, 327-333.	1.5	12
39	Photosystem IIâ€Inhibitors Play a Limited Role in Sweet Corn Response to 4â€Hydroxyphenyl Pyruvate Dioxygenaseâ€Inhibiting Herbicides. Agronomy Journal, 2014, 106, 1317-1323.	0.9	11
40	Oligomerization, Membrane Association, and in Vivo Phosphorylation of Sugarcane UDP-glucose Pyrophosphorylase. Journal of Biological Chemistry, 2014, 289, 33364-33377.	1.6	11
41	Functional analysis of the BRI1 receptor kinase by Thr-for-Ser substitution in a regulatory autophosphorylation site. Frontiers in Plant Science, 2015, 6, 562.	1.7	10
42	Arabidopsis plants expressing only the redoxâ€regulated Rcaâ€Î± isoform have constrained photosynthesis and plant growth. Plant Journal, 2020, 103, 2250-2262.	2.8	7
43	Resolution and characterization of multiple cytosolic phosphatases capable of hydrolyzing fructose-1,6-bisphosphate in spinach and soybean leaves. Physiologia Plantarum, 1984, 60, 577-582.	2.6	5
44	Tyrosine-610 in the Receptor Kinase BAK1 Does Not Play a Major Role in Brassinosteroid Signaling or Innate Immunity. Frontiers in Plant Science, 2017, 8, 1273.	1.7	5
45	Four tyrosine residues of the rice immune receptor XA21 are not required for interaction with the co-receptor OsSERK2 or resistance to <i>Xanthomonas oryzae</i> pv. <i>oryzae</i>. PeerJ, 2018, 6, e6074.	0.9	4
46	Impact of Ca2+on structure of soybean CDPKÎ² and accessibility of the Tyr-24 autophosphorylation site. Plant Signaling and Behavior, 2013, 8, e27671.	1.2	2