Yufei Sun

List of Publications by Year
in descending order

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46 papers	1,948 citations	201674 27 h-index	254184 43 g-index
47 all docs	47 docs citations	47 times ranked	2380 citing authors

#	Article	IF	Citations
1	Suppression of 9-cis-Epoxycarotenoid Dioxygenase, Which Encodes a Key Enzyme in Abscisic Acid Biosynthesis, Alters Fruit Texture in Transgenic Tomato Â Â. Plant Physiology, 2012, 158, 283-298.	4.8	228
2	SlNCED1 and SlCYP707A2: key genes involved in ABA metabolism during tomato fruit ripening. Journal of Experimental Botany, 2014, 65, 5243-5255.	4.8	95
3	A ligand-independent origin of abscisic acid perception. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24892-24899.	7.1	84
4	Strain engineering in functional 2-dimensional materials. Journal of Applied Physics, 2019, 125, .	2.5	79
5	The role of abscisic acid in regulating cucumber fruit development and ripening and its transcriptional regulation. Plant Physiology and Biochemistry, 2013, 64, 70-79.	5.8	76
6	The Role of ABA in the Maturation and Postharvest Life of a Nonclimacteric Sweet Cherry Fruit. Journal of Plant Growth Regulation, 2014, 33, 373-383.	5.1	73
7	The role of Fa<scp>BG</scp>3 in fruit ripening and B.Âcinerea fungal infection of strawberry. Plant Journal, 2013, 76, 24-35.	5.7	69
8	Non-climacteric ripening in strawberry fruit is linked to ABA, FaNCED2 and FaCYP707A1. Functional Plant Biology, 2012, 39, 351.	2.1	68
9	Elastic Properties and Fracture Behaviors of Biaxially Deformed, Polymorphic MoTe₂. Nano Letters, 2019, 19, 761-769.	9.1	67
10	Suppressing <scp>ABA</scp> uridine diphosphate glucosyltransferase (Sl<scp>UGT</scp>75C1) alters fruit ripening and the stress response in tomato. Plant Journal, 2017, 91, 574-589.	5.7	61
11	The expression profiling of the CsPYL, CsPP2C and CsSnRK2 gene families during fruit development and drought stress in cucumber. Journal of Plant Physiology, 2012, 169, 1874-1882.	3.5	59
12	PacCYP707A2 negatively regulates cherry fruit ripening while PacCYP707A1 mediates drought tolerance. Journal of Experimental Botany, 2015, 66, 3765-3774.	4.8	57
13	Grainâ€Boundary Engineering of Monolayer MoS₂ for Energyâ€Efficient Lateral Synaptic Devices. Advanced Materials, 2021, 33, e2102435.	21.0	53
14	Abscisic acid catabolism enhances dormancy release of grapevine buds. Plant, Cell and Environment, 2018, 41, 2490-2503.	5.7	52
15	Bifunctional NbS₂-Based Asymmetric Heterostructure for Lateral and Vertical Electronic Devices. ACS Nano, 2020, 14, 175-184.	14.6	51
16	Phase-transition modulated, high-performance dual-mode photodetectors based on WSe₂/VO₂ heterojunctions. Applied Physics Reviews, 2019, 6, 041407.	11.3	50
17	Suppressing Type 2C Protein Phosphatases Alters Fruit Ripening and the Stress Response in Tomato. Plant and Cell Physiology, 2018, 59, 142-154.	3.1	47
18	Expression analysis of Î²-glucosidase genes that regulate abscisic acid homeostasis during watermelon (Citrullus lanatus) development and under stress conditions. Journal of Plant Physiology, 2012, 169, 78-85.	3.5	44

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19	Substrate modified thermal stability of mono- and few-layer MoS₂. Nanoscale, 2018, 10, 3540-3546.	5.6	43
20	Transcriptional Regulation of Genes Encoding Key Enzymes of Abscisic Acid Metabolism During Melon (Cucumis melo L.) Fruit Development and Ripening. Journal of Plant Growth Regulation, 2013, 32, 233-244.	5.1	42
21	Transcriptional regulation of abscisic acid signal core components during cucumber seed germination and under Cu2+, Zn2+, NaCl and simulated acid rain stresses. Plant Physiology and Biochemistry, 2014, 76, 67-76.	5.8	41
22	Monolayer MoS₂ Synaptic Transistors for High-Temperature Neuromorphic Applications. Nano Letters, 2021, 21, 10400-10408.	9.1	41
23	Evolution of Abscisic Acid Signaling Module and Its Perception. Frontiers in Plant Science, 2020, 11, 934.	3.6	40
24	Transcriptional regulation of PaPYLs, PaPP2Cs and PaSnRK2s during sweet cherry fruit development and in response to abscisic acid and auxin at onset of fruit ripening. Plant Growth Regulation, 2015, 75, 455-464.	3.4	39
25	Bioelectronicsâ€Related 2D Materials Beyond Graphene: Fundamentals, Properties, and Applications. Advanced Functional Materials, 2020, 30, 2003732.	14.9	39
26	Modulating Photoluminescence of Monolayer Molybdenum Disulfide by Metalâ€“Insulator Phase Transition in Active Substrates. Small, 2016, 12, 3976-3984.	10.0	30
27	SlPti4 Affects Regulation of Fruit Ripening, Seed Germination and Stress Responses by Modulating ABA Signaling in Tomato. Plant and Cell Physiology, 2018, 59, 1956-1965.	3.1	30
28	Ultrasensitive, Lowâ€Voltage Operational, and Asymmetric Ionic Sensing Hydrogel for Multipurpose Applications. Advanced Functional Materials, 2020, 30, 1909616.	14.9	29
29	The functional analysis of SlNCED1 in tomato pollen development. Cellular and Molecular Life Sciences, 2018, 75, 3457-3472.	5.4	28
30	A Review of Low-Power Electric Propulsion Research at the Space Propulsion Centre Singapore. Aerospace, 2020, 7, 67.	2.2	25
31	Tomato protein phosphatase 2C influences the onset of fruit ripening and fruit glossiness. Journal of Experimental Botany, 2021, 72, 2403-2418.	4.8	25
32	Watching Dynamic Self-Assembly of Web Buckles in Strained MoS₂ Thin Films. ACS Nano, 2019, 13, 3106-3116.	14.6	24
33	Wafer-scale freestanding vanadium dioxide film. Science Advances, 2021, 7, eabk3438.	10.3	24
34	High-Responsivity Photovoltaic Photodetectors Based on MoTe2/MoSe2 van der Waals Heterojunctions. Crystals, 2019, 9, 315.	2.2	21
35	Direct laser patterning of two-dimensional lateral transition metal disulfide-oxide-disulfide heterostructures for ultrasensitive sensors. Nano Research, 2020, 13, 2035-2043.	10.4	21
36	Transcriptional regulation of genes encoding ABA metabolism enzymes during the fruit development and dehydration stress of pear 'Gold Nijisseiki'. Plant Physiology and Biochemistry, 2014, 82, 299-308.	5.8	19

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37	Ultrafast, Kinetically Limited, Ambient Synthesis of Vanadium Dioxides through Laser Direct Writing on Ultrathin Chalcogenide Matrix. ACS Nano, 2021, 15, 10502-10513.	14.6	17
38	The expression pattern of Î²-glucosidase genes (VvBGs) during grape berry maturation and dehydration stress. Plant Growth Regulation, 2013, 70, 105-114.	3.4	14
39	Few-Layer MoS₂ Nanosheet/Carbon Nanotube Composite Films for Long-Lifetime Lithium Storage and Hydrogen Generation. ACS Applied Nano Materials, 2021, 4, 4754-4762.	5.0	13
40	Variable responses of two VlMYBA gene promoters to ABA and ACC in Kyoho grape berries. Journal of Plant Physiology, 2017, 211, 81-89.	3.5	8
41	Robust photoluminescence energy of MoS2/graphene heterostructure against electron irradiation. Science China Materials, 2018, 61, 1351-1359.	6.3	8
42	Expression pattern of ABA metabolic and signalling genes during floral development and fruit set in sweet cherry. Plant Growth Regulation, 2018, 84, 71-80.	3.4	6
43	Two-Dimensional Lateral Heterostructures Made by Selective Reaction on a Patterned Monolayer MoS2 Matrix. ACS Applied Materials & Interfaces, 2021, 13, 26143-26151.	8.0	5
44	Ionic Sensing Hydrogels: Ultrasensitive, Lowâ€Voltage Operational, and Asymmetric Ionic Sensing Hydrogel for Multipurpose Applications (Adv. Funct. Mater. 12/2020). Advanced Functional Materials, 2020, 30, 2070080.	14.9	1
45	Grainâ€Boundary Engineering of Monolayer MoS₂ for Energyâ€Efficient Lateral Synaptic Devices (Adv. Mater. 32/2021). Advanced Materials, 2021, 33, 2170251.	21.0	1
46	Preliminary Experiments on Rotamak-Like Plasma Engine. , 2020, , .		0