

Yunde Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

126
papers

16,155
citations

17440

63
h-index

17105

122
g-index

134
all docs

134
docs citations

134
times ranked

13764
citing authors

#	ARTICLE	IF	CITATIONS
1	Editing gene families by CRISPR/Cas9: accelerating the isolation of multiple transgene-free null mutant combinations with much reduced labor-intensive analysis. <i>Plant Biotechnology Journal</i> , 2022, 20, 241-243.	8.3	7
2	Local conjugation of auxin by the GH3 amido synthetases is required for normal development of roots and flowers in <i>Arabidopsis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2022, 589, 16-22.	2.1	13
3	Updates on gene editing and its applications. <i>Plant Physiology</i> , 2022, 188, 1725-1730.	4.8	15
4	<i>Plant Physiology</i> : a new editorial team and exciting initiatives. <i>Plant Physiology</i> , 2022, , .	4.8	1
5	Advances in gene editing without residual transgenes in plants. <i>Plant Physiology</i> , 2022, 188, 1757-1768.	4.8	24
6	<i>Plant Physiology</i> welcomes 13 new Assistant Features Editors. <i>Plant Physiology</i> , 2022, 188, 919-920.	4.8	1
7	Plant biology: Local auxin synthesis drives pollen maturation in barley. <i>Current Biology</i> , 2022, 32, R370-R372.	3.9	2
8	<i>Plant Physiology</i> is recruiting Assistant Features Editors for 2023. <i>Plant Physiology</i> , 2022, , .	4.8	0
9	An amiRNA screen uncovers redundant CBF and ERF34/35 transcription factors that differentially regulate arsenite and cadmium responses. <i>Plant, Cell and Environment</i> , 2021, 44, 1692-1706.	5.7	19
10	Cell kinetics of auxin transport and activity in <i>Arabidopsis</i> root growth and skewing. <i>Nature Communications</i> , 2021, 12, 1657.	12.8	30
11	PIEZO ion channel is required for root mechanotransduction in <i>Arabidopsis thaliana</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	65
12	<i>Plant Physiology</i> is recruiting Assistant Features Editors for 2022. <i>Plant Physiology</i> , 2021, 187, 31-31.	4.8	1
13	Natural allelic variation in a modulator of auxin homeostasis improves grain yield and nitrogen use efficiency in rice. <i>Plant Cell</i> , 2021, 33, 566-580.	6.6	53
14	The main oxidative inactivation pathway of the plant hormone auxin. <i>Nature Communications</i> , 2021, 12, 6752.	12.8	85
15	Synergistic roles of LAX1 and FZP in the development of rice sterile lemma. <i>Crop Journal</i> , 2020, 8, 16-25.	5.2	4
16	Positional effects on efficiency of CRISPR/Cas9-based transcriptional activation in rice plants. <i>ABIOTECH</i> , 2020, 1, 1-5.	3.9	13
17	MAP3Kinase-dependent SnRK2-kinase activation is required for abscisic acid signal transduction and rapid osmotic stress response. <i>Nature Communications</i> , 2020, 11, 12.	12.8	202
18	Technological breakthroughs in generating transgene-free and genetically stable CRISPR-edited plants. <i>ABIOTECH</i> , 2020, 1, 88-96.	3.9	57

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19	Repurposing of Anthocyanin Biosynthesis for Plant Transformation and Genome Editing. <i>Frontiers in Genome Editing</i> , 2020, 2, 607982.	5.2	14
20	A reporter for noninvasively monitoring gene expression and plant transformation. <i>Horticulture Research</i> , 2020, 7, 152.	6.3	103
21	Non-intrinsic ATP-binding cassette proteins ABCI19, ABCI20 and ABCI21 modulate cytokinin response at the endoplasmic reticulum in <i>Arabidopsis thaliana</i> . <i>Plant Cell Reports</i> , 2020, 39, 473-487.	5.6	16
22	Two homologous INDOLE-3-ACETAMIDE (IAM) HYDROLASE genes are required for the auxin effects of IAM in <i>Arabidopsis</i> . <i>Journal of Genetics and Genomics</i> , 2020, 47, 157-165.	3.9	22
23	Update on Receptors and Signaling. <i>Plant Physiology</i> , 2020, 182, 1527-1530.	4.8	20
24	Role of <i>Arabidopsis</i> INDOLE-3-ACETIC ACID CARBOXYL METHYLTRANSFERASE 1 in auxin metabolism. <i>Biochemical and Biophysical Research Communications</i> , 2020, 527, 1033-1038.	2.1	12
25	UDP-glucosyltransferase UGT84B1 regulates the levels of indole-3-acetic acid and phenylacetic acid in <i>Arabidopsis</i> . <i>Biochemical and Biophysical Research Communications</i> , 2020, 532, 244-250.	2.1	21
26	Homeobox transcription factor OsZHD2 promotes root meristem activity in rice by inducing ethylene biosynthesis. <i>Journal of Experimental Botany</i> , 2020, 71, 5348-5364.	4.8	24
27	Editorial: Organ Modification for Edible Parts of Horticultural Crops. <i>Frontiers in Plant Science</i> , 2019, 10, 961.	3.6	0
28	Gibberellins Play a Role in Regulating Tomato Fruit Ripening. <i>Plant and Cell Physiology</i> , 2019, 60, 1619-1629.	3.1	41
29	Precise gene replacement in rice by RNA transcript-templated homologous recombination. <i>Nature Biotechnology</i> , 2019, 37, 445-450.	17.5	110
30	<i>PINOID</i> Is Required for Formation of the Stigma and Style in Rice. <i>Plant Physiology</i> , 2019, 180, 926-936.	4.8	30
31	An Essential Role for miRNA167 in Maternal Control of Embryonic and Seed Development. <i>Plant Physiology</i> , 2019, 180, 453-464.	4.8	61
32	The plant ESCRT component FREE1 shuttles to the nucleus to attenuate abscisic acid signalling. <i>Nature Plants</i> , 2019, 5, 512-524.	9.3	68
33	Plant genome editing using xCas9 with expanded PAM compatibility. <i>Journal of Genetics and Genomics</i> , 2019, 46, 277-280.	3.9	24
34	<i>Agrobacterium tumefaciens</i> Enhances Biosynthesis of Two Distinct Auxins in the Formation of Crown Galls. <i>Plant and Cell Physiology</i> , 2019, 60, 29-37.	3.1	39
35	ESCRT-dependent vacuolar sorting and degradation of the auxin biosynthetic enzyme YUC1 flavin monooxygenase. <i>Journal of Integrative Plant Biology</i> , 2019, 61, 968-973.	8.5	9
36	Fluorescence Marker-Assisted Isolation of Cas9-Free and CRISPR-Edited <i>Arabidopsis</i> Plants. <i>Methods in Molecular Biology</i> , 2019, 1917, 147-154.	0.9	22

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37	Modulation of Auxin Signaling and Development by Polyadenylation Machinery. <i>Plant Physiology</i> , 2019, 179, 686-699.	4.8	15
38	Essential Roles of Local Auxin Biosynthesis in Plant Development and in Adaptation to Environmental Changes. <i>Annual Review of Plant Biology</i> , 2018, 69, 417-435.	18.7	218
39	A method for the production and expedient screening of CRISPR/Cas9-mediated non-transgenic mutant plants. <i>Horticulture Research</i> , 2018, 5, 13.	6.3	148
40	Efficient allelic replacement in rice by gene editing: A case study of the <i>NRT1.1B</i> gene. <i>Journal of Integrative Plant Biology</i> , 2018, 60, 536-540.	8.5	68
41	TCP Transcription Factors Regulate Shade Avoidance via Directly Mediating the Expression of Both <i>PHYTOCHROME INTERACTING FACTOR</i> s and Auxin Biosynthetic Genes. <i>Plant Physiology</i> , 2018, 176, 1850-1861.	4.8	65
42	Expanding the Scope of CRISPR/Cpf1-Mediated Genome Editing in Rice. <i>Molecular Plant</i> , 2018, 11, 995-998.	8.3	87
43	Recent advances in auxin research in rice and their implications for crop improvement. <i>Journal of Experimental Botany</i> , 2018, 69, 255-263.	4.8	65
44	Editorial: Hormonal Control of Important Agronomic Traits. <i>Frontiers in Plant Science</i> , 2018, 9, 1504.	3.6	3
45	Programmed Self-Elimination of the CRISPR/Cas9 Construct Greatly Accelerates the Isolation of Edited and Transgene-Free Rice Plants. <i>Molecular Plant</i> , 2018, 11, 1210-1213.	8.3	159
46	Auxin production in diploid microsporocytes is necessary and sufficient for early stages of pollen development. <i>PLoS Genetics</i> , 2018, 14, e1007397.	3.5	63
47	Synthesis-dependent repair of Cpf1-induced double strand DNA breaks enables targeted gene replacement in rice. <i>Journal of Experimental Botany</i> , 2018, 69, 4715-4721.	4.8	70
48	The YUCCA-Auxin-WOX11 Module Controls Crown Root Development in Rice. <i>Frontiers in Plant Science</i> , 2018, 9, 523.	3.6	95
49	Generation of Targeted Point Mutations in Rice by a Modified CRISPR/Cas9 System. <i>Molecular Plant</i> , 2017, 10, 526-529.	8.3	272
50	On Improving CRISPR for Editing Plant Genes: Ribozyme-Mediated Guide RNA Production and Fluorescence-Based Technology for Isolating Transgene-Free Mutants Generated by CRISPR. <i>Progress in Molecular Biology and Translational Science</i> , 2017, 149, 151-166.	1.7	25
51	Self-cleaving ribozymes enable the production of guide RNAs from unlimited choices of promoters for CRISPR/Cas9 mediated genome editing. <i>Journal of Genetics and Genomics</i> , 2017, 44, 469-472.	3.9	82
52	Revolutionize Genetic Studies and Crop Improvement with High-Throughput and Genome-Scale CRISPR/Cas9 Gene Editing Technology. <i>Molecular Plant</i> , 2017, 10, 1141-1143.	8.3	19
53	Production of Guide RNAs in vitro and in vivo for CRISPR Using Ribozymes and RNA Polymerase II Promoters. <i>Bio-protocol</i> , 2017, 7, .	0.4	27
54	Generation of High-Amylose Rice through CRISPR/Cas9-Mediated Targeted Mutagenesis of Starch Branching Enzymes. <i>Frontiers in Plant Science</i> , 2017, 8, 298.	3.6	348

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55	An Effective Strategy for Reliably Isolating Heritable and <i>Cas9</i> -Free Arabidopsis Mutants Generated by CRISPR/Cas9-Mediated Genome Editing. <i>Plant Physiology</i> , 2016, 171, 1794-1800.	4.8	225
56	Auxin perception and downstream events. <i>Current Opinion in Plant Biology</i> , 2016, 33, 8-14.	7.1	77
57	Molecular basis for differential light responses in Arabidopsis stems and leaves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 5774-5776.	7.1	5
58	Overexpression of the bacterial tryptophan oxidase RebO affects auxin biosynthesis and Arabidopsis development. <i>Science Bulletin</i> , 2016, 61, 859-867.	9.0	23
59	The Auxin-Deficient Defective Kernel18 (<i>dek18</i>) Mutation Alters the Expression of Seed-Specific Biosynthetic Genes in Maize. <i>Journal of Plant Growth Regulation</i> , 2016, 35, 770-777.	5.1	18
60	Toward a Molecular Understanding of Plant Hormone Actions. <i>Molecular Plant</i> , 2016, 9, 1-3.	8.3	7
61	Engineering Herbicide-Resistant Rice Plants through CRISPR/Cas9-Mediated Homologous Recombination of Acetolactate Synthase. <i>Molecular Plant</i> , 2016, 9, 628-631.	8.3	416
62	Embryonic lethality of Arabidopsis <i>abp1-1</i> is caused by deletion of the adjacent BSM gene. <i>Nature Plants</i> , 2015, 1, .	9.3	33
63	<i>OsARID3</i> , an <i>AT</i> -rich Interaction Domain-containing protein, is required for shoot meristem development in rice. <i>Plant Journal</i> , 2015, 83, 806-817.	5.7	15
64	Fast-Suppressor Screening for New Components in Protein Trafficking, Organelle Biogenesis and Silencing Pathway in Arabidopsis thaliana Using DEX-Inducible <i>FREE1</i> -RNAi Plants. <i>Journal of Genetics and Genomics</i> , 2015, 42, 319-330.	3.9	18
65	Auxin binding protein 1 (ABP1) is not required for either auxin signaling or Arabidopsis development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2275-2280.	7.1	314
66	A key link between jasmonic acid signaling and auxin biosynthesis. <i>Science China Life Sciences</i> , 2015, 58, 311-312.	4.9	5
67	Development of 4-methoxy-7-nitroindolyl (MNI)-caged auxins which are extremely stable in planta. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2015, 25, 4464-4471.	2.2	11
68	Distinct Characteristics of Indole-3-Acetic Acid and Phenylacetic Acid, Two Common Auxins in Plants. <i>Plant and Cell Physiology</i> , 2015, 56, 1641-1654.	3.1	142
69	Auxin Biosynthesis. <i>The Arabidopsis Book</i> , 2014, 12, e0173.	0.5	197
70	Auxin Overproduction in Shoots Cannot Rescue Auxin Deficiencies in Arabidopsis Roots. <i>Plant and Cell Physiology</i> , 2014, 55, 1072-1079.	3.1	202
71	Self-processing of ribozyme-flanked RNAs <i>in vitro</i> and <i>in vivo</i> for CRISPR-mediated genome editing. <i>Journal of Integrative Plant Biology</i> , 2014, 56, 343-349.	8.5	477
72	Tryptophan-dependent auxin biosynthesis is required for HD-ZIP III-mediated xylem patterning. <i>Development (Cambridge)</i> , 2014, 141, 1250-1259.	2.5	85

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73	Specific and heritable gene editing in <i>Arabidopsis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4357-4358.	7.1	29
74	Auxin Biosynthesis and Catabolism. , 2014, , 21-38.		12
75	The Biochemical Mechanism of Auxin Biosynthesis by an <i>Arabidopsis</i> YUCCA Flavin-containing Monooxygenase. Journal of Biological Chemistry, 2013, 288, 1448-1457.	3.4	175
76	Coordination of auxin and ethylene biosynthesis by the aminotransferase VAS1. Nature Chemical Biology, 2013, 9, 244-246.	8.0	99
77	The jasmonic acid signaling pathway is linked to auxin homeostasis through the modulation of <i>YUCCA8</i> and <i>YUCCA9</i> gene expression. Plant Journal, 2013, 74, 626-637.	5.7	178
78	Epigenetic Suppression of T-DNA Insertion Mutants in <i>Arabidopsis</i> . Molecular Plant, 2013, 6, 539-545.	8.3	31
79	A PP6-Type Phosphatase Holoenzyme Directly Regulates PIN Phosphorylation and Auxin Efflux in <i>Arabidopsis</i> . Plant Cell, 2012, 24, 2497-2514.	6.6	84
80	Pattern of Auxin and Cytokinin Responses for Shoot Meristem Induction Results from the Regulation of Cytokinin Biosynthesis by AUXIN RESPONSE FACTOR3. Plant Physiology, 2012, 161, 240-251.	4.8	218
81	Auxin Biosynthesis: A Simple Two-Step Pathway Converts Tryptophan to Indole-3-Acetic Acid in Plants. Molecular Plant, 2012, 5, 334-338.	8.3	405
82	Conversion of tryptophan to indole-3-acetic acid by TRYPTOPHAN AMINOTRANSFERASES OF <i>ARABIDOPSIS</i> and YUCCAs in <i>Arabidopsis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18518-18523.	7.1	580
83	The main auxin biosynthesis pathway in <i>Arabidopsis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18512-18517.	7.1	827
84	Allelic Analyses of the <i>Arabidopsis</i> YUC1 Locus Reveal Residues and Domains Essential for the Functions of YUC Family of Flavin Monooxygenases. Journal of Integrative Plant Biology, 2011, 53, 54-62.	8.5	26
85	NPY Genes Play an Essential Role in Root Gravitropic Responses in <i>Arabidopsis</i> . Molecular Plant, 2011, 4, 171-179.	8.3	41
86	Auxin Biosynthesis and Its Role in Plant Development. Annual Review of Plant Biology, 2010, 61, 49-64.	18.7	1,085
87	A platform of high-density INDEL/CAPS markers for map-based cloning in <i>Arabidopsis</i> . Plant Journal, 2010, 63, 880-888.	5.7	72
88	REVEILLE1, a Myb-like transcription factor, integrates the circadian clock and auxin pathways. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 16883-16888.	7.1	226
89	An Allelic Mutant Series of <i>ATM3</i> Reveals Its Key Role in the Biogenesis of Cytosolic Iron-Sulfur Proteins in <i>Arabidopsis</i> . Plant Physiology, 2009, 151, 590-602.	4.8	120
90	Biochemical analyses of indole-3-acetaldoxime-dependent auxin biosynthesis in <i>Arabidopsis</i> . Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 5430-5435.	7.1	304

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91	The possible action mechanisms of indole-3-acetic acid methyl ester in Arabidopsis. <i>Plant Cell Reports</i> , 2008, 27, 575-584.	5.6	43
92	<i>SPOROCTELESS</i> modulates <i>YUCCA</i> expression to regulate the development of lateral organs in Arabidopsis. <i>New Phytologist</i> , 2008, 179, 751-764.	7.3	69
93	The role of local biosynthesis of auxin and cytokinin in plant development. <i>Current Opinion in Plant Biology</i> , 2008, 11, 16-22.	7.1	151
94	Rapid Synthesis of Auxin via a New Tryptophan-Dependent Pathway Is Required for Shade Avoidance in Plants. <i>Cell</i> , 2008, 133, 164-176.	28.9	928
95	Plant Hormones and Signaling: Common Themes and New Developments. <i>Developmental Cell</i> , 2008, 14, 467-473.	7.0	102
96	<i>NPY</i> genes and AGC kinases define two key steps in auxin-mediated organogenesis in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 21017-21022.	7.1	139
97	Binding of Sulfurated Molybdenum Cofactor to the C-terminal Domain of ABA3 from <i>Arabidopsis thaliana</i> Provides Insight into the Mechanism of Molybdenum Cofactor Sulfuration. <i>Journal of Biological Chemistry</i> , 2008, 283, 9642-9650.	3.4	73
98	A New CULLIN 1 Mutant Has Altered Responses to Hormones and Light in Arabidopsis. <i>Plant Physiology</i> , 2007, 143, 684-696.	4.8	74
99	BIN4, a Novel Component of the Plant DNA Topoisomerase VI Complex, Is Required for Endoreduplication in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2007, 19, 3655-3668.	6.6	103
100	NPY1, a BTB-NPH3-like protein, plays a critical role in auxin-regulated organogenesis in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18825-18829.	7.1	125
101	Auxin Synthesized by the YUCCA Flavin Monooxygenases Is Essential for Embryogenesis and Leaf Formation in <i>Arabidopsis</i> . <i>Plant Cell</i> , 2007, 19, 2430-2439.	6.6	601
102	A Role for Auxin in Flower Development. <i>Journal of Integrative Plant Biology</i> , 2007, 49, 99-104.	8.5	112
103	An <i>Arabidopsis thaliana</i> virescent mutant reveals a role for ClpR1 in plastid development. <i>Plant Molecular Biology</i> , 2006, 63, 85-96.	3.9	120
104	Auxin biosynthesis by the YUCCA flavin monooxygenases controls the formation of floral organs and vascular tissues in <i>Arabidopsis</i> . <i>Genes and Development</i> , 2006, 20, 1790-1799.	5.9	997
105	A Role for Auxin Response Factor 19 in Auxin and Ethylene Signaling in Arabidopsis. <i>Plant Physiology</i> , 2006, 140, 899-908.	4.8	163
106	Recent Advances in Auxin Biosynthesis and Conjugation. <i>Recent Advances in Phytochemistry</i> , 2006, 40, 271-285.	0.5	2
107	Genetic and chemical analyses of the action mechanisms of sirtinol in Arabidopsis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 3129-3134.	7.1	81
108	An Indole-3-Acetic Acid Carboxyl Methyltransferase Regulates Arabidopsis Leaf Development. <i>Plant Cell</i> , 2005, 17, 2693-2704.	6.6	260

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109	A Mutation in the Anticodon of a Single tRNA ^{Ala} Is Sufficient to Confer Auxin Resistance in Arabidopsis. <i>Plant Physiology</i> , 2005, 139, 1284-1290.	4.8	17
110	AtCAND1, A HEAT-Repeat Protein That Participates in Auxin Signaling in Arabidopsis. <i>Plant Physiology</i> , 2004, 135, 1020-1026.	4.8	90
111	The CW domain, a structural module shared amongst vertebrates, vertebrate-infecting parasites and higher plants. <i>Trends in Biochemical Sciences</i> , 2003, 28, 576-580.	7.5	83
112	SIR1, an Upstream Component in Auxin Signaling Identified by Chemical Genetics. <i>Science</i> , 2003, 301, 1107-1110.	12.6	158
113	Chemical Genetic Approaches to Plant Biology. <i>Plant Physiology</i> , 2003, 133, 448-455.	4.8	132
114	Revisiting the kinetics of nitric oxide (NO) binding to soluble guanylate cyclase: The simple NO-binding model is incorrect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 12097-12101.	7.1	128
115	A crucial role for the putative Arabidopsis topoisomerase VI in plant growth and development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 10191-10196.	7.1	120
116	Trp-dependent auxin biosynthesis in Arabidopsis: involvement of cytochrome P450s CYP79B2 and CYP79B3. <i>Genes and Development</i> , 2002, 16, 3100-3112.	5.9	598
117	Divergent perspectives on GM food. <i>Nature Biotechnology</i> , 2002, 20, 1195-1196.	17.5	11
118	A Link between the Light and Gibberellin Signaling Cascades. <i>Developmental Cell</i> , 2001, 1, 315-316.	7.0	3
119	BIG: a calossin-like protein required for polar auxin transport in Arabidopsis. <i>Genes and Development</i> , 2001, 15, 1985-1997.	5.9	250
120	Cu ²⁺ and Zn ²⁺ Inhibit Nitric-oxide Synthase through an Interaction with the Reductase Domain. <i>Journal of Biological Chemistry</i> , 2000, 275, 14070-14076.	3.4	23
121	Inhibition of Soluble Guanylate Cyclase by ODQ. <i>Biochemistry</i> , 2000, 39, 10848-10854.	2.5	208
122	Cellular Applications of a Sensitive and Selective Fiber-Optic Nitric Oxide Biosensor Based on a Dye-Labeled Heme Domain of Soluble Guanylate Cyclase. <i>Analytical Chemistry</i> , 1999, 71, 2071-2075.	6.5	73
123	Structural Dynamics in the Guanylate Cyclase Heme Pocket after CO Photolysis. <i>Journal of the American Chemical Society</i> , 1999, 121, 7397-7400.	13.7	11
124	Structural Changes in the Heme Proximal Pocket Induced by Nitric Oxide Binding to Soluble Guanylate Cyclase. <i>Biochemistry</i> , 1998, 37, 12458-12464.	2.5	64
125	Resonance Raman Characterization of the Heme Domain of Soluble Guanylate Cyclase. <i>Biochemistry</i> , 1998, 37, 16289-16297.	2.5	48
126	Localization of the Heme Binding Region in Soluble Guanylate Cyclase. <i>Biochemistry</i> , 1997, 36, 15959-15964.	2.5	127