

Xian-chun Zeng

List of Publications by Year in descending order

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59
papers

1,797
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201674

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59
all docs

59
docs citations

59
times ranked

1569
citing authors

#	ARTICLE	IF	CITATIONS
1	Scorpion Venom Peptides without Disulfide Bridges. IUBMB Life, 2005, 57, 13-21.	3.4	147
2	Identification and functional characterization of novel scorpion venom peptides with no disulfide bridge from <i>Buthus martensii</i> Karsch. Peptides, 2004, 25, 143-150.	2.4	115
3	Hsp70 dynamics in vivo: effect of heat shock and protein aggregation. Journal of Cell Science, 2004, 117, 4991-5000.	2.0	72
4	Microbial communities involved in arsenic mobilization and release from the deep sediments into groundwater in Jiangnan plain, Central China. Science of the Total Environment, 2017, 579, 989-999.	8.0	64
5	Characterization of BmKbpp, a multifunctional peptide from the Chinese scorpion <i>Mesobuthus martensii</i> Karsch: Gaining insight into a new mechanism for the functional diversification of scorpion venom peptides. Peptides, 2012, 33, 44-51.	2.4	63
6	Cloning and characterization of a cDNA sequence encoding the precursor of a chlorotoxin-like peptide from the Chinese scorpion <i>Buthus martensii</i> Karsch. Toxicon, 2000, 38, 1009-1014.	1.6	57
7	Unique diversity of the venom peptides from the scorpion <i>Androctonus bicolor</i> revealed by transcriptomic and proteomic analysis. Journal of Proteomics, 2015, 128, 231-250.	2.4	56
8	<i>Pontibacter diazotrophicus</i> sp. nov., a Novel Nitrogen-Fixing Bacterium of the Family Cytophagaceae. PLoS ONE, 2014, 9, e92294.	2.5	55
9	Three new antimicrobial peptides from the scorpion <i>Pandinus imperator</i> . Peptides, 2013, 45, 28-34.	2.4	51
10	Sulfate enhances the dissimilatory arsenate-respiring prokaryotes-mediated mobilization, reduction and release of insoluble arsenic and iron from the arsenic-rich sediments into groundwater. Journal of Hazardous Materials, 2017, 339, 409-417.	12.4	48
11	Receptor-mediated Endocytosis Involves Tyrosine Phosphorylation of Cortactin. Journal of Biological Chemistry, 2007, 282, 16086-16094.	3.4	46
12	A novel class of antimicrobial peptides from the scorpion <i>Heterometrus spinifer</i> . Peptides, 2012, 38, 389-394.	2.4	46
13	Long-term performance of rapid oxidation of arsenite in simulated groundwater using a population of arsenite-oxidizing microorganisms in a bioreactor. Water Research, 2016, 101, 393-401.	11.3	45
14	Cloning and Characterization of a Novel cDNA Sequence Encoding the Precursor of a Novel Venom Peptide (BmKbpp) Related to a Bradykinin-Potentiating Peptide from Chinese Scorpion <i>Buthus martensii</i> Karsch. IUBMB Life, 2000, 49, 207-210.	3.4	44
15	Genomic organization of four novel nondisulfide-bridged peptides from scorpion <i>Mesobuthus martensii</i> Karsch: Gaining insight into evolutionary mechanism. Peptides, 2005, 26, 2427-2433.	2.4	41
16	Inhibitory effect of nitrate/nitrite on the microbial reductive dissolution of arsenic and iron from soils into pore water. Ecotoxicology, 2019, 28, 528-538.	2.4	40
17	Cloning and Characterization of a Novel cDNA Sequence Encoding the Precursor of a Novel Venom Peptide (BmKbpp) Related to a Bradykinin-Potentiating Peptide from Chinese Scorpion <i>Buthus martensii</i> Karsch. IUBMB Life, 2000, 49, 207-210.	3.4	37
18	Molecular cloning and characterization of four scorpion K ⁺ -toxin-like peptides: A new subfamily of venom peptides (I±-KTx14) and genomic analysis of a member***The nucleotide sequence data reported in this paper have been submitted to the EMBL Nucleotide Sequence Database under the accession numbers: AJ277726 (BmKK1); AJ277727 (BmKK2); AJ277728 (BmKK3); AJ277729 (BmKK4); and AJ277730 (genomic) Tj ETQq0 0 0 rgBT	2.6	35

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19	<i>Flavobacterium arsenatis</i> sp. nov., a novel arsenic-resistant bacterium from high-arsenic sediment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2014, 64, 3369-3374.	1.7	34
20	Functions and Unique Diversity of Genes and Microorganisms Involved in Arsenite Oxidation from the Tailings of a Realgar Mine. <i>Applied and Environmental Microbiology</i> , 2016, 82, 7019-7029.	3.1	34
21	<i>Luteimonas arsenica</i> sp. nov., an arsenic-tolerant bacterium isolated from arsenic-contaminated soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016, 66, 2291-2296.	1.7	34
22	Molecular dissection of venom from Chinese scorpion <i>Mesobuthus martensii</i> : Identification and characterization of four novel disulfide-bridged venom peptides. <i>Peptides</i> , 2006, 27, 1745-1754.	2.4	33
23	Microbial reactions and environmental factors affecting the dissolution and release of arsenic in the severely contaminated soils under anaerobic or aerobic conditions. <i>Ecotoxicology and Environmental Safety</i> , 2020, 189, 109946.	6.0	33
24	Microbially Mediated Methylation of Arsenic in the Arsenic-Rich Soils and Sediments of Jiangnan Plain. <i>Frontiers in Microbiology</i> , 2018, 9, 1389.	3.5	31
25	<i>Mycetocola manganoxydans</i> sp. nov., an actinobacterium isolated from the Taklamakan desert. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2012, 62, 2967-2970.	1.7	30
26	Transcriptomic analysis of the venom glands from the scorpion <i>Hadogenes troglodytes</i> revealed unique and extremely high diversity of the venom peptides. <i>Journal of Proteomics</i> , 2017, 150, 40-62.	2.4	29
27	Identification of BmKAPi, a novel type of scorpion venom peptide with peculiar disulfide bridge pattern from <i>Buthus martensii</i> Karsch. <i>Toxicon</i> , 2002, 40, 1719-1722.	1.6	28
28	Genomic and functional characterization of three new venom peptides from the scorpion <i>Heterometrus spinifer</i> . <i>Peptides</i> , 2014, 53, 30-41.	2.4	28
29	Nine novel precursors of <i>Buthus martensii</i> scorpion α -toxin homologues. <i>Toxicon</i> , 2000, 38, 1653-1661.	1.6	27
30	<i>Pontibacter yuliensis</i> sp. nov., isolated from soil. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2014, 64, 968-972.	1.7	26
31	<i>Arsenicitalea aurantiaca</i> gen. nov., sp. nov., a new member of the family Hyphomicrobiaceae, isolated from high-arsenic sediment. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016, 66, 5478-5484.	1.7	23
32	Evidence that BmTXK ² -BmKCT cDNA from Chinese scorpion <i>Buthus martensii</i> Karsch is an artifact generated in the reverse transcription process. <i>FEBS Letters</i> , 2002, 520, 183-184.	2.8	22
33	Cloning and characterization of the cDNA sequences of two venom peptides from Chinese scorpion <i>Buthus martensii</i> Karsch (BmK). <i>Toxicon</i> , 2000, 38, 893-899.	1.6	21
34	Precursor of a Novel Scorpion Venom Peptide (BmKn1) with no Disulfide Bridge from <i>Buthus martensii</i> Karsch. <i>IUBMB Life</i> , 2001, 51, 117-120.	3.4	21
35	Molecular cloning and functional expression of a gene encoding an antiarrhythmia peptide derived from the scorpion toxin. <i>FEBS Journal</i> , 2002, 269, 4468-4475.	0.2	21
36	Reductive dissolution and release of arsenic from arsenopyrite by a novel arsenate-respiring bacterium from the arsenic-contaminated soils. <i>International Biodeterioration and Biodegradation</i> , 2019, 143, 104712.	3.9	19

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37	Identification and molecular characterization of three new K ⁺ -channel specific toxins from the Chinese scorpion <i>Mesobuthus martensii</i> Karsch revealing intronic number polymorphism and alternative splicing in duplicated genes. <i>Peptides</i> , 2012, 34, 311-323.	2.4	18
38	<i>Pseudaminobacter arsenicus</i> sp. nov., an arsenic-resistant bacterium isolated from arsenic-rich aquifers. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2019, 69, 791-797.	1.7	18
39	Effects of arsenic on the biofilm formations of arsenite-oxidizing bacteria. <i>Ecotoxicology and Environmental Safety</i> , 2018, 165, 1-10.	6.0	17
40	Characterization of a novel cDNA encoding a short venom peptide derived from venom gland of scorpion <i>Buthus martensii</i> Karsch: Trans-splicing may play an important role in the diversification of scorpion venom peptides. <i>Peptides</i> , 2006, 27, 675-681.	2.4	15
41	Functional genes and thermophilic microorganisms responsible for arsenite oxidation from the shallow sediment of an untraversed hot spring outlet. <i>Ecotoxicology</i> , 2017, 26, 490-501.	2.4	14
42	Molecular cloning and sequence analysis of cDNAs encoding a β -toxin-like peptide and two M β Tx I homologues from scorpion <i>Buthus martensii</i> Karsch. <i>Toxicon</i> , 2001, 39, 225-232.	1.6	13
43	Molecular cloning and genomic organization of a K ⁺ channel toxin from the Chinese scorpion <i>Buthus martensii</i> Karsch. <i>Toxicon</i> , 2001, 39, 407-410.	1.6	13
44	Draft genome sequence of <i>Arthrobacter</i> sp. strain B6 isolated from the high-arsenic sediments in Datong Basin, China. <i>Standards in Genomic Sciences</i> , 2017, 12, 11.	1.5	13
45	Precursor nucleotide sequence and genomic organization of BmTXKS1, a new scorpion toxin-like peptide from <i>Buthus martensii</i> Karsch. <i>Toxicon</i> , 2001, 39, 1291-1296.	1.6	12
46	Tremendous intron length differences of the BmKBT and a novel BmKBT-like peptide genes provide a mechanical basis for the rapid or constitutive expression of the peptides. <i>Peptides</i> , 2012, 37, 150-156.	2.4	12
47	Isolation and characterization of a radiation-resistant bacterium from Taklamakan Desert showing potent ability to accumulate Lead (II) and considerable potential for bioremediation of radioactive wastes. <i>Ecotoxicology</i> , 2014, 23, 1915-1921.	2.4	12
48	Dissimilatory arsenate-respiring prokaryotes catalyze the dissolution, reduction and release of arsenic from paddy soils into groundwater: implication for the effect of sulfate. <i>Ecotoxicology</i> , 2018, 27, 1126-1136.	2.4	12
49	Molecular and bioinformatical characterization of a novel superfamily of cysteine-rich peptides from arthropods. <i>Peptides</i> , 2013, 41, 45-58.	2.4	11
50	Androcin, a novel type of cysteine-rich venom peptide from <i>Androctonus bicolor</i> , induces akinesia and anxiety-like symptoms in mice. <i>IUBMB Life</i> , 2014, 66, 277-285.	3.4	11
51	Unique diversity and functions of the arsenic-methylating microorganisms from the tailings of Shimen Realgar Mine. <i>Ecotoxicology</i> , 2020, 29, 86-96.	2.4	10
52	Genome-wide search and comparative genomic analysis of the trypsin inhibitor-like cysteine-rich domain-containing peptides. <i>Peptides</i> , 2014, 53, 106-114.	2.4	9
53	A novel cysteine-free venom peptide with strong antimicrobial activity against antibiotics-resistant pathogens from the scorpion <i>Opisthophthalmus glabrifrons</i> . <i>Journal of Peptide Science</i> , 2015, 21, 758-764.	1.4	8
54	Inhibitory Effect of an Acidic Peptide on the Activity of an Antimicrobial Peptide from the Scorpion <i>Mesobuthus martensii</i> Karsch. <i>Molecules</i> , 2018, 23, 3314.	3.8	5

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55	Biological effect of phosphate on the dissimilatory arsenate-respiring bacteria-catalyzed reductive mobilization of arsenic from contaminated soils. <i>Environmental Pollution</i> , 2022, 308, 119698.	7.5	5
56	Fibronectin-mediated cell spreading requires ABBA-Rac1 signaling. <i>Journal of Cellular Biochemistry</i> , 2013, 114, 773-781.	2.6	4
57	A novel biofilm bioreactor derived from a consortium of acidophilic arsenite-oxidizing bacteria for the cleaning up of arsenite from acid mine drainage. <i>Ecotoxicology</i> , 2021, 30, 1437-1445.	2.4	4
58	A powerful arsenite-oxidizing biofilm bioreactor derived from a single chemoautotrophic bacterial strain: Bioreactor construction, long-term operations and kinetic analysis. <i>Chemosphere</i> , 2021, 273, 129672.	8.2	3
59	Precursor of a Novel Scorpion Venom Peptide (BmKn1) with no Disulfide Bridge from <i>Buthus martensii</i> Karsch. <i>IUBMB Life</i> , 2001, 51, 117-120.	3.4	2