

Feng Wang

List of Publications by Year in descending order

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49
papers

1,212
citations

394421

19
h-index

414414

32
g-index

50
all docs

50
docs citations

50
times ranked

1433
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Efficient and Specific Genome Editing in Silkworm Using Custom TALENs. PLoS ONE, 2012, 7, e45035.	2.5	131
2	A wearable, cotton thread/paper-based microfluidic device coupled with smartphone for sweat glucose sensing. Cellulose, 2019, 26, 4553-4562.	4.9	106
3	2A self-cleaving peptide-based multi-gene expression system in the silkworm Bombyx mori. Scientific Reports, 2015, 5, 16273.	3.3	102
4	Facile and Low-Cost Fabrication of a Thread/Paper-Based Wearable System for Simultaneous Detection of Lactate and pH in Human Sweat. Advanced Fiber Materials, 2020, 2, 265-278.	16.1	60
5	Structural and Mechanical Properties of Silk from Different Instars of <i>Bombyx mori</i> . Biomacromolecules, 2019, 20, 1203-1216.	5.4	58
6	An optimized sericin-1 expression system for mass-producing recombinant proteins in the middle silk glands of transgenic silkworms. Transgenic Research, 2013, 22, 925-938.	2.4	57
7	Fabrication of the FGF1-functionalized sericin hydrogels with cell proliferation activity for biomedical application using genetically engineered Bombyx mori (<i>B. mori</i>) silk. Acta Biomaterialia, 2018, 79, 239-252.	8.3	46
8	Advanced silk material spun by a transgenic silkworm promotes cell proliferation for biomedical application. Acta Biomaterialia, 2014, 10, 4947-4955.	8.3	42
9	TALE: A tale of genome editing. Progress in Biophysics and Molecular Biology, 2014, 114, 25-32.	2.9	30
10	Constructing high effective nano-Mn ₃ (PO ₄) ₂ -chitosan in situ electrochemical detection interface for superoxide anions released from living cell. Biosensors and Bioelectronics, 2019, 133, 133-140.	10.1	29
11	Protein composites from silkworm cocoons as versatile biomaterials. Acta Biomaterialia, 2021, 121, 180-192.	8.3	29
12	A Sandwich-Structured Piezoresistive Sensor with Electrospun Nanofiber Mats as Supporting, Sensing, and Packaging Layers. Polymers, 2018, 10, 575.	4.5	28
13	Genetically engineered bi-functional silk material with improved cell proliferation and anti-inflammatory activity for medical application. Acta Biomaterialia, 2019, 86, 148-157.	8.3	28
14	Large-scale production of bioactive recombinant human acidic fibroblast growth factor in transgenic silkworm cocoons. Scientific Reports, 2015, 5, 16323.	3.3	27
15	Genetically engineered pH-responsive silk sericin nanospheres with efficient therapeutic effect on ulcerative colitis. Acta Biomaterialia, 2022, 144, 81-95.	8.3	27
16	Transgenic Silkworm-Based Silk Gland Bioreactor for Large Scale Production of Bioactive Human Platelet-Derived Growth Factor (PDGF-BB) in Silk Cocoons. International Journal of Molecular Sciences, 2018, 19, 2533.	4.1	25
17	Transgenic PDGF-BB/sericin hydrogel supports for cell proliferation and osteogenic differentiation. Biomaterials Science, 2020, 8, 657-672.	5.4	23
18	An analogue memristor made of silk fibroin polymer. Journal of Materials Chemistry C, 2021, 9, 14583-14588.	5.5	22

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19	The promoter of Bmlp3 gene can direct fat body-specific expression in the transgenic silkworm, <i>Bombyx mori</i> . <i>Transgenic Research</i> , 2013, 22, 1055-1063.	2.4	20
20	Tannic acid-assisted deposition of silk sericin on the titanium surfaces for antifouling application. <i>Colloids and Interface Science Communications</i> , 2020, 35, 100241.	4.1	19
21	Cell guidance on peptide micropatterned silk fibroin scaffolds. <i>Journal of Colloid and Interface Science</i> , 2021, 603, 380-390.	9.4	19
22	Cre-mediated targeted gene activation in the middle silk glands of transgenic silkworms (<i>Bombyx mori</i>). <i>Journal of Insect Science and Technology</i> , 2019, 10, 1-10.	2.4	18
23	Discovery of Selective Butyrylcholinesterase (BChE) Inhibitors through a Combination of Computational Studies and Biological Evaluations. <i>Molecules</i> , 2019, 24, 4217.	3.8	18
24	BC@DNA-Mn ₃ (PO ₄) ₂ Nanzyme for Real-Time Detection of Superoxide from Living Cells. <i>Analytical Chemistry</i> , 2020, 92, 15927-15935.	6.5	18
25	Remobilizing deleted piggyBac vector post-integration for transgene stability in silkworm. <i>Molecular Genetics and Genomics</i> , 2015, 290, 1181-1189.	2.1	17
26	Cohesive thermoplastic-assisted patterning and assembly of a textile-supported piezoresistive sensor for monitoring human vital signs. <i>Smart Materials and Structures</i> , 2018, 27, 105027.	3.5	17
27	High-efficiency system for construction and evaluation of customized TALENs for silkworm genome editing. <i>Molecular Genetics and Genomics</i> , 2013, 288, 683-690.	2.1	16
28	Genetic marking of sex using a W chromosome-linked transgene. <i>Insect Biochemistry and Molecular Biology</i> , 2013, 43, 1079-1086.	2.7	15
29	Ectopic expression of the male <i>BmDSX</i> affects formation of the chitin plate in female <i>Bombyx mori</i> . <i>Molecular Reproduction and Development</i> , 2014, 81, 240-247.	2.0	13
30	A silkworm based silk gland bioreactor for high-efficiency production of recombinant human lactoferrin with antibacterial and anti-inflammatory activities. <i>Journal of Biological Engineering</i> , 2019, 13, 61.	4.7	13
31	Novel female-specific trans-spliced and alternative splice forms of <i>dsx</i> in the silkworm <i>Bombyx mori</i> . <i>Biochemical and Biophysical Research Communications</i> , 2013, 431, 630-635.	2.1	12
32	Genetic fabrication of functional silk mats with improved cell proliferation activity for medical applications. <i>Biomaterials Science</i> , 2019, 7, 4536-4546.	5.4	12
33	Optimization of a 2A self-cleaving peptide-based multigene expression system for efficient expression of upstream and downstream genes in silkworm. <i>Molecular Genetics and Genomics</i> , 2019, 294, 849-859.	2.1	12
34	Adhesive tape-assisted etching of silk fibroin film with LiBr aqueous solution for microfluidic devices. <i>Materials Science and Engineering C</i> , 2021, 118, 111543.	7.3	12
35	Fabrication of a Silk Sericin Hydrogel System Delivering Human Lactoferrin Using Genetically Engineered Silk with Improved Bioavailability to Alleviate Chemotherapy-Induced Immunosuppression. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45175-45190.	8.0	12
36	New Insights into the Genomic Organization and Splicing of the Doublesex Gene, a Terminal Regulator of Sexual Differentiation in the Silkworm <i>Bombyx mori</i> . <i>PLoS ONE</i> , 2013, 8, e79703.	2.5	11

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37	Insights into the repression of fibroin modulator binding protein-1 on the transcription of fibroin H-chain during molting in <i>Bombyx mori</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2019, 104, 39-49.	2.7	10
38	One-Step Dip-Coating-Fabricated Core-Shell Silk Fibroin Rice Paper Fibrous Scaffolds for 3D Tumor Spheroid Formation. <i>ACS Applied Bio Materials</i> , 2020, 3, 7462-7471.	4.6	10
39	Design of an amperometric glucose oxidase biosensor with added protective and adhesion layers. <i>Mikrochimica Acta</i> , 2021, 188, 312.	5.0	10
40	Overexpression of recombinant infectious bursal disease virus (IBDV) capsid protein VP2 in the middle silk gland of transgenic silkworm. <i>Transgenic Research</i> , 2014, 23, 809-816.	2.4	8
41	Constructing Silk Fibroin-Based Three-Dimensional Microfluidic Devices via a Tape Mask-Assisted Multiple-Step Etching Technique. <i>ACS Applied Bio Materials</i> , 2021, 4, 8039-8048.	4.6	8
42	Freeze-drying prepared ready-to-use gelatin @polypropylene nonwoven hybrid sheet for stacking 3D cell culture. <i>Cellulose</i> , 2019, 26, 6755-6768.	4.9	4
43	An inducible constitutive expression system in <i>Bombyx mori</i> mediated by phiC31 integrase. <i>Insect Science</i> , 2021, 28, 1277-1289.	3.0	4
44	Genetically engineered FGF1-sericin hydrogel material treats intrauterine adhesion and restores fertility in rat. <i>International Journal of Energy Production and Management</i> , 2022, 9, rbac016.	3.7	4
45	Overexpression and functional characterization of an <i>Aspergillus niger</i> phytase in the fat body of transgenic silkworm, <i>Bombyx mori</i> . <i>Transgenic Research</i> , 2014, 23, 669-677.	2.4	3
46	Identification of a functional element in the promoter of the silkworm (<i>Bombyx mori</i>) fat body-specific gene <i>Bmlp3</i> . <i>Gene</i> , 2014, 546, 129-134.	2.2	3
47	Transdermal peptide conjugated to human connective tissue growth factor with enhanced cell proliferation and hyaluronic acid synthesis activities produced by a silkworm silk gland bioreactor. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 9979-9990.	3.6	3
48	A coaxial nanocable textured by a cerium oxide shell and carbon core for sensing nitric oxide. <i>Mikrochimica Acta</i> , 2019, 186, 789.	5.0	1
49	The C-terminus of DSXF5 protein acts as a novel regulatory domain in <i>Bombyx mori</i> . <i>Transgenic Research</i> , 2016, 25, 491-497.	2.4	0