He Dong

List of Publications by Year
in descending order

44 papers	2,080 citations	279701 23 h-index	265120 42 g-index
45 all docs	45 docs citations	45 times ranked	2840 citing authors

#	Article	IF	Citations
1	Self-Assembly of Multidomain Peptides:â€‰ Balancing Molecular Frustration Controls Conformation and Nanostructure. Journal of the American Chemical Society, 2007, 129, 12468-12472.	6.6	322
2	Self-Assembly of Multidomain Peptides: Sequence Variation Allows Control over Cross-Linking and Viscoelasticity. Biomacromolecules, 2009, 10, 2694-2698.	2.6	227
3	Self-Assembling Peptide Amphiphile Nanofibers as a Scaffold for Dental Stem Cells. Tissue Engineering - Part A, 2008, 14, 2051-2058.	1.6	167
4	Self-Assembly of Î±-Helical Coiled Coil Nanofibers. Journal of the American Chemical Society, 2008, 130, 13691-13695.	6.6	163
5	Biosensors based on modularly designed synthetic peptides for recognition, detection and live/dead differentiation of pathogenic bacteria. Biosensors and Bioelectronics, 2016, 80, 9-16.	5.3	106
6	Long-Circulating 15 nm Micelles Based on Amphiphilic 3-Helix Peptideâ€"PEG Conjugates. ACS Nano, 2012, 6, 5320-5329.	7.3	91
7	Molecular imprinting-based fluorescent chemosensor for histamine using zinc(II)â€"protoporphyrin as a functional monomer. Analytica Chimica Acta, 2002, 466, 31-37.	2.6	75
8	Designed supramolecular filamentous peptides: balance of nanostructure, cytotoxicity and antimicrobial activity. Chemical Communications, 2015, 51, 1289-1292.	2.2	65
9	Self-assembly of cationic multidomain peptide hydrogels: supramolecular nanostructure and rheological properties dictate antimicrobial activity. Nanoscale, 2015, 7, 19160-19169.	2.8	63
10	Short Homodimeric and Heterodimeric Coiled Coils. Biomacromolecules, 2006, 7, 691-695.	2.6	61
11	Zwitteration of dextran: a facile route to integrate antifouling, switchability and optical transparency into natural polymers. Chemical Communications, 2014, 50, 3234-3237.	2.2	61
12	Self-Assembled Peptide Nanofibers Display Natural Antimicrobial Peptides to Selectively Kill Bacteria without Compromising Cytocompatibility. ACS Applied Materials & Interfaces, 2019, 11, 28681-28689.	4.0	59
13	Role of Hydrophobic Clusters in the Stability of Î±-Helical Coiled Coils and Their Conversion to Amyloid-like Î²-Sheets. Biomacromolecules, 2007, 8, 617-623.	2.6	53
14	Distinct Membrane Disruption Pathways Are Induced by 40-Residue Î²-Amyloid Peptides. Journal of Biological Chemistry, 2016, 291, 12233-12244.	1.6	50
15	3-Helix Micelles Stabilized by Polymer Springs. Journal of the American Chemical Society, 2012, 134, 11807-11814.	6.6	43
16	Syntheses of steroid-based molecularly imprinted polymers and their molecular recognition study with spectrometric detection. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2003, 59, 279-284.	2.0	41
17	Filamentous supramolecular peptideâ€"drug conjugates as highly efficient drug delivery vehicles. Chemical Communications, 2014, 50, 4827-4830.	2.2	40
18	Effect of Alkyl Length of Peptideâ€"Polymer Amphiphile on Cargo Encapsulation Stability and Pharmacokinetics of 3-Helix Micelles. Biomacromolecules, 2014, 15, 2963-2970.	2.6	35

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19	Fabrication and Microscopic and Spectroscopic Characterization of Cytocompatible Self-Assembling Antimicrobial Nanofibers. ACS Infectious Diseases, 2018, 4, 1327-1335.	1.8	33
20	Tuning the mechanical and bioresponsive properties of peptide-amphiphile nanofiber networks. Journal of Biomaterials Science, Polymer Edition, 2008, 19, 665-676.	1.9	32
21	Evaluation of Doxorubicin-Loaded 3-Helix Micelles as Nanocarriers. Biomacromolecules, 2013, 14, 3697-3705.	2.6	31
22	Self-assembly nanostructure controlled sustained release, activity and stability of peptide drugs. International Journal of Pharmaceutics, 2017, 528, 723-731.	2.6	30
23	Designed filamentous cell penetrating peptides: probing supramolecular structure-dependent membrane activity and transfection efficiency. Chemical Communications, 2015, 51, 11757-11760.	2.2	29
24	Toward hemocompatible self-assembling antimicrobial nanofibers: understanding the synergistic effect of supramolecular structure and PEGylation on hemocompatibility. RSC Advances, 2016, 6, 15911-15919.	1.7	26
25	Fabrication of self-assembling nanofibers with optimal cell uptake and therapeutic delivery efficacy. Bioactive Materials, 2017, 2, 260-268.	8.6	22
26	Bacterial acidity-triggered antimicrobial activity of self-assembling peptide nanofibers. Journal of Materials Chemistry B, 2019, 7, 2915-2919.	2.9	22
27	Imaging of Actively Proliferating Bacterial Infections by Targeting the Bacterial Metabolic Footprint with <scp>d</scp>-[5-¹¹C]-Glutamine. ACS Infectious Diseases, 2021, 7, 347-361.	1.8	20
28	Micelle Stabilization via Entropic Repulsion: Balance of Force Directionality and Geometric Packing of Subunit. Biomacromolecules, 2015, 16, 743-747.	2.6	19
29	Combined Tumor Environment Triggered Selfâ€Assembling Peptide Nanofibers and Inducible Multivalent Ligand Display for Cancer Cell Targeting with Enhanced Sensitivity and Specificity. Small, 2020, 16, e2002780.	5.2	13
30	Proteinâ€like Nanoparticles Based on Orthogonal Selfâ€Assembly of Chimeric Peptides. Small, 2016, 12, 5126-5131.	5.2	10
31	Designing sub-20Ânm self-assembled nanocarriers for small molecule delivery: Interplay among structural geometry, assembly energetics, and cargo release kinetics. Journal of Controlled Release, 2021, 329, 538-551.	4.8	9
32	Chemo-enzymatic Routes to Lipopeptides and Their Colloidal Properties. Langmuir, 2014, 30, 6889-6896.	1.6	8
33	Kinetic Pathway of 3-Helix Micelle Formation. Biomacromolecules, 2017, 18, 976-984.	2.6	8
34	Shape-specific nanostructured protein mimics from <i>de novo</i> designed chimeric peptides. Biomaterials Science, 2018, 6, 272-279.	2.6	8
35	Membrane activity of a supramolecular peptide-based chemotherapeutic enhancer. Molecular BioSystems, 2016, 12, 2695-2699.	2.9	7
36	Design and fabrication of reduction-sensitive cell penetrating nanofibers for enhanced drug efficacy. Journal of Materials Chemistry B, 2018, 6, 7179-7184.	2.9	6

#	Article	IF	Citations
37	Lipid membrane interactions of self-assembling antimicrobial nanofibers: effect of PEGylation. RSC Advances, 2020, 10, 35329-35340.	1.7	6
38	Modular design and self-assembly of multidomain peptides towards cytocompatible supramolecular cell penetrating nanofibers. RSC Advances, 2020, 10, 29469-29474.	1.7	6
39	Self-assembly of Filamentous Cell Penetrating Peptides for Gene Delivery. Methods in Molecular Biology, 2018, 1777, 271-281.	0.4	4
40	Self-assembly of chimeric peptides toward molecularly defined hexamers with controlled multivalent ligand presentation. Chemical Communications, 2020, 56, 7128-7131.	2.2	4
41	Facile construction of fluorescent peptide microarrays: One-step fluorescent derivatization of sub-microscale peptide aldehydes for selective terminal immobilization. Analytical Biochemistry, 2010, 398, 132-134.	1.1	3
42	Supramolecular Polymerization of Peptides and Peptide Derivatives: Nanofibrous Materials. , 0, , 359-393.		1
43	Modular Design of Supramolecular Ionic Peptides with Cellâ€Selective Membrane Activity. ChemBioChem, 2021, 22, 3164-3168.	1.3	1
44	Editorial to the Special Issueâ€"â€œRecent Advances in Self-Assembled Peptidesâ€. Molecules, 2019, 24, 3089.	1.7	0