

# Xin Huang

## List of Publications by Year in descending order

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84  
papers

3,567  
citations

136950

32  
h-index

138484

58  
g-index

87  
all docs

87  
docs citations

87  
times ranked

3668  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interfacial assembly of protein-polymer nano-conjugates into stimulus-responsive biomimetic protocells. <i>Nature Communications</i> , 2013, 4, 2239.	12.8	418
2	Engineering Functional Polymer Capsules toward Smart Nanoreactors. <i>Chemical Reviews</i> , 2016, 116, 1053-1093.	47.7	337
3	Artificial selenoenzymes: Designed and redesigned. <i>Chemical Society Reviews</i> , 2011, 40, 1171-1184.	38.1	167
4	Design and Construction of Higher-Order Structure and Function in Proteinosome-Based Protocells. <i>Journal of the American Chemical Society</i> , 2014, 136, 9225-9234.	13.7	164
5	Synthetic cellularity based on non-lipid micro-compartments and protocell models. <i>Current Opinion in Chemical Biology</i> , 2014, 22, 1-11.	6.1	153
6	Hierarchical Proteinosomes for Programmed Release of Multiple Components. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 7095-7100.	13.8	116
7	Membrane-mediated cascade reactions by enzyme-polymer proteinosomes. <i>Chemical Communications</i> , 2014, 50, 6278-6280.	4.1	95
8	Progress on multi-compartment polymeric capsules. <i>Polymer Chemistry</i> , 2013, 4, 435-443.	3.9	91
9	Spontaneous Growth and Division in Self-Reproducing Inorganic Colloidosomes. <i>Small</i> , 2014, 10, 3291-3298.	10.0	80
10	Lipase-Powered Mesoporous Silica Nanomotors for Triglyceride Degradation. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7992-7996.	13.8	78
11	Construction of polymer coated core-shell magnetic mesoporous silica nanoparticles with triple responsive drug delivery. <i>Polymer Chemistry</i> , 2017, 8, 5852-5864.	3.9	73
12	Preparation of pH-responsive mesoporous hydroxyapatite nanoparticles for intracellular controlled release of an anticancer drug. <i>Biomaterials Science</i> , 2016, 4, 272-280.	5.4	68
13	Tailored Synthesis of Intelligent Polymer Nanocapsules: An Investigation of Controlled Permeability and pH-Dependent Degradability. <i>ACS Nano</i> , 2012, 6, 9718-9726.	14.6	63
14	Smart microgel catalyst with modulatory glutathione peroxidase activity. <i>Soft Matter</i> , 2009, 5, 1905.	2.7	61
15	A facile approach for the reduction of 4-nitrophenol and degradation of congo red using gold nanoparticles or laccase decorated hybrid inorganic nanoparticles/polymer-biomacromolecules vesicles. <i>Materials Science and Engineering C</i> , 2019, 94, 524-533.	7.3	59
16	Synthesis of Well-Defined Photo-Cross-Linked Polymeric Nanocapsules by Surface-Initiated RAFT Polymerization. <i>Macromolecules</i> , 2011, 44, 8351-8360.	4.8	58
17	Enzyme Conformation Influences the Performance of Lipase-Powered Nanomotors. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21080-21087.	13.8	58
18	Biomimicry of Cellular Motility and Communication Based on Synthetic Soft Architectures. <i>Small</i> , 2020, 16, e1907680.	10.0	58

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19	Spatial Organization in Proteinaceous Membrane-Stabilized Coacervate Protocells. <i>Small</i> , 2019, 15, e1902893.	10.0	50
20	Autonomic Behaviors in Lipase-Active Oil Droplets. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1067-1071.	13.8	50
21	Photosynthetic hydrogen production by droplet-based microbial micro-reactors under aerobic conditions. <i>Nature Communications</i> , 2020, 11, 5985.	12.8	49
22	Enzyme-Modulated Anaerobic Encapsulation of <i>Chlorella</i> Cells Allows Switching from O <sub>2</sub> to H <sub>2</sub> Production. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3992-3995.	13.8	48
23	Efficient Way to Generate Protein-Based Nanoparticles by in-Situ Photoinitiated Polymerization-Induced Self-Assembly. <i>ACS Macro Letters</i> , 2017, 6, 689-694.	4.8	47
24	Bioinspired Protein-Based Assembling: Toward Advanced Life-Like Behaviors. <i>Advanced Materials</i> , 2020, 32, e2001436.	21.0	46
25	Synthesis of Hetero-Polymer Functionalized Nanocarriers by Combining Surface-Initiated ATRP and RAFT Polymerization. <i>Small</i> , 2012, 8, 3579-3583.	10.0	44
26	A modulatory bifunctional artificial enzyme with both SOD and GPx activities based on a smart star-shaped pseudo-block copolymer. <i>Soft Matter</i> , 2010, 6, 5342.	2.7	42
27	Membrane Engineering of Colloidosome Microcompartments Using Partially Hydrophobic Mesoporous Silica Nanoparticles. <i>Langmuir</i> , 2014, 30, 15047-15052.	3.5	41
28	Hierarchical Proteinosomes for Programmed Release of Multiple Components. <i>Angewandte Chemie</i> , 2016, 128, 7211-7216.	2.0	39
29	Coordinated Membrane Fusion of Proteinosomes by Contact-Induced Hydrogel Self-Healing. <i>Small</i> , 2017, 13, 1700467.	10.0	38
30	Engineering proteinosomes with renewable predatory behaviour towards living organisms. <i>Materials Horizons</i> , 2020, 7, 157-163.	12.2	36
31	Membranization of Coacervates into Artificial Phagocytes with Predation toward Bacteria. <i>ACS Nano</i> , 2021, 15, 10048-10057.	14.6	35
32	Construction of the Active Site of Glutathione Peroxidase on Polymer-Based Nanoparticles. <i>Biomacromolecules</i> , 2008, 9, 1467-1473.	5.4	34
33	Signal-On Electrochemiluminescence of Self-Ordered Molybdenum Oxynitride Nanotube Arrays for Label-Free Cytosensing. <i>Analytical Chemistry</i> , 2018, 90, 10858-10864.	6.5	31
34	Tellurium-Based Polymeric Surfactants as a Novel Seleno-Enzyme Model with High Activity. <i>Macromolecular Rapid Communications</i> , 2006, 27, 2101-2106.	3.9	30
35	Bio-inspired engineering proteinosomes with a cell-wall-like protective shell by self-assembly of a metal-chelated complex. <i>Chemical Communications</i> , 2016, 52, 13803-13806.	4.1	30
36	Intracellular pH-responsive mesoporous hydroxyapatite nanoparticles for targeted release of anticancer drug. <i>RSC Advances</i> , 2015, 5, 30920-30928.	3.6	29

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37	Programmable Modulation of Membrane Permeability of Proteinosome upon Multiple Stimuli Responses. <i>ACS Macro Letters</i> , 2016, 5, 961-966.	4.8	27
38	Incorporation of glutathione peroxidase active site into polymer based on imprinting strategy. <i>Biosensors and Bioelectronics</i> , 2009, 25, 657-660.	10.1	26
39	Single-step fabrication of multi-compartmentalized biphasic proteinosomes. <i>Chemical Communications</i> , 2017, 53, 8537-8540.	4.1	26
40	In Situ Self-Assembly of Coacervate Microdroplets into Viable Artificial Cell Wall with Heritability. <i>Advanced Functional Materials</i> , 2018, 28, 1705699.	14.9	26
41	Engineered borate ester conjugated protein-polymer nanoconjugates for pH-responsive drug delivery. <i>Materials Science and Engineering C</i> , 2019, 104, 109914.	7.3	26
42	Construction of Eukaryotic Cell Biomimetics: Hierarchical Polymersomes- $\alpha$ -Proteinosome Multicompartment with Enzymatic Reactions Modulated Protein Transportation. <i>Small</i> , 2021, 17, e2005749.	10.0	26
43	Construction of biological hybrid microcapsules with defined permeability towards programmed release of biomacromolecules. <i>Chemical Communications</i> , 2017, 53, 11678-11681.	4.1	25
44	Construction of Smart Glutathione Peroxidase Mimic Based on Hydrophilic Block Copolymer with Temperature Responsive Activity. <i>Macromolecular Bioscience</i> , 2009, 9, 1202-1210.	4.1	24
45	Autonomic Behaviors in Lipase-Active Oil Droplets. <i>Angewandte Chemie</i> , 2019, 131, 1079-1083.	2.0	24
46	Construction of a smart glutathione peroxidase mimic with temperature responsive activity based on block copolymer. <i>Soft Matter</i> , 2011, 7, 2521.	2.7	23
47	Fusion-Induced Structural and Functional Evolution in Binary Emulsion Communities. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 16953-16960.	13.8	23
48	Design of Artificial Selenoenzymes Based on Macromolecular Scaffolds. <i>Macromolecular Bioscience</i> , 2010, 10, 1385-1396.	4.1	21
49	Near-Infrared-Induced Contractile Proteinosome Microreactor with a Fast Control on Enzymatic Reactions. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 41079-41087.	8.0	21
50	Multifunctional and Programmable Modulated Interface Reactions on Proteinosomes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 38565-38573.	8.0	20
51	Programmable spatial organization of liquid-phase condensations. <i>CheM</i> , 2022, 8, 784-800.	11.7	20
52	In Situ Gelation-Induced Death of Cancer Cells Based on Proteinosomes. <i>Biomacromolecules</i> , 2017, 18, 2446-2453.	5.4	19
53	Design and Construction of Hybrid Microcapsules with Higher-Order Structure and Multiple Functions. <i>Advanced Science</i> , 2018, 5, 1700460.	11.2	19
54	A facile design of smart silica nanocarriers via surface-initiated RAFT polymerization as a dual-stimuli drug release platform. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 581, 123797.	4.7	19

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55	Lipase-Powered Mesoporous Silica Nanomotors for Triglyceride Degradation. <i>Angewandte Chemie</i> , 2019, 131, 8076-8080.	2.0	19
56	Construction of Hybrid Bi-microcompartments with Exocytosis-Inspired Behavior toward Fast Temperature-Modulated Transportation of Living Organisms. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 20795-20802.	13.8	16
57	One-step preparation of magnetic recyclable quinary graphene hydrogels with high catalytic activity. <i>Journal of Colloid and Interface Science</i> , 2017, 491, 72-79.	9.4	15
58	Life-Inspired Endogenous Dynamic Behavior of Lipid Droplet-like Microcompartments in Artificial Adipocyte-like Structures. <i>CCS Chemistry</i> , 2021, 3, 2782-2794.	7.8	15
59	Reversible Light-Responsive Coacervate Microdroplets with Rapid Regulation of Enzymatic Reaction Rate. <i>ChemSystemsChem</i> , 2021, 3, e2100006.	2.6	13
60	Single-Cell Nanometric Coating Towards Whole-Cell-Based Biodevices and Biosensors. <i>ChemistrySelect</i> , 2018, 3, 7208-7221.	1.5	12
61	The construction of thiol-functionalized DNAsomes with small molecules response and protein release. <i>Materials Science and Engineering C</i> , 2019, 99, 1153-1163.	7.3	12
62	A Class of Biocompatible Dye-Protein Complex Optical Nanoprobes. <i>ACS Nano</i> , 2022, 16, 328-339.	14.6	12
63	Interfacial self-assembly of gold nanoparticle-polymer nanoconjugates into microcapsules with near-infrared light modulated biphasic catalysis efficiency. <i>Chemical Communications</i> , 2019, 55, 10760-10763.	4.1	10
64	Enzyme-Modulated Anaerobic Encapsulation of Chlorella Cells Allows Switching from O <sub>2</sub> to H <sub>2</sub> Production. <i>Angewandte Chemie</i> , 2019, 131, 4032-4035.	2.0	10
65	Polymer-chlorella cells conjugating with aggregation-induced functionality switch towards hydrogen evolution. <i>Science China Technological Sciences</i> , 2020, 63, 1416-1425.	4.0	10
66	Dynamic Behaviour in Microcompartments. <i>Chemistry - A European Journal</i> , 2019, 25, 16440-16450.	3.3	9
67	Enzyme Conformation Influences the Performance of Lipase-Powered Nanomotors. <i>Angewandte Chemie</i> , 2020, 132, 21266-21273.	2.0	9
68	Whole-Cell-Based Photosynthetic Biohybrid Systems for Energy and Environmental Applications. <i>ChemPlusChem</i> , 2021, 86, 1021-1036.	2.8	9
69	A pH Self-Monitoring Heterogeneous Multicompartmental Proteinosome with Spatiotemporal Regulation of Insulin Transportation. <i>Chinese Journal of Chemistry</i> , 2021, 39, 3386-3392.	4.9	9
70	Construction of coacervates in proteinosome hybrid microcompartments with enhanced cascade enzymatic reactions. <i>Chemical Communications</i> , 2021, 57, 11713-11716.	4.1	9
71	Preparation of Magnetically Recyclable Yolk/Shell Fe <sub>x</sub> O <sub>y</sub> /PdPt@CeO <sub>2</sub> Nanoreactors with Enhanced Catalytic Activity. <i>Chemistry - an Asian Journal</i> , 2017, 12, 1400-1407.	3.3	8
72	In Situ Generation of Core-Shell Protein-Based Microcapsules with Regulated Ion Absorbance Capacity. <i>ChemistrySelect</i> , 2017, 2, 6249-6253.	1.5	5

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73	Fusion-Induced Structural and Functional Evolution in Binary Emulsion Communities. <i>Angewandte Chemie</i> , 2020, 132, 17101-17108.	2.0	5
74	A Removable Artificial Cell Wall for Withstanding Ciprofloxacin. <i>Macromolecular Bioscience</i> , 2020, 20, 2000185.	4.1	4
75	CdS-modified porous foam nickel for label-free highly efficient detection of cancer cells. <i>RSC Advances</i> , 2016, 6, 32874-32880.	3.6	3
76	New protein-based smart materials. , 2020, , 415-436.		2
77	Engineering Au Nanoclusters for Relay Luminescence Enhancement with Aggregation-Induced Emission. <i>Nanomaterials</i> , 2022, 12, 777.	4.1	2
78	Protective Mechanism of a Layer-by-Layer-Assembled Artificial Cell Wall on Probiotics. <i>Journal of Physical Chemistry B</i> , 2022, 126, 1933-1940.	2.6	2
79	Frontispiece: Dynamic Behaviour in Microcompartments. <i>Chemistry - A European Journal</i> , 2019, 25, .	3.3	1
80	Self-Limiting Assembly of Au Nanoparticles Induced by Localized Dynamic Metal-Phenolic Interactions. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 4477-4482.	2.0	1
81	Autonomic Behaviors in Lipase-Active Oil Droplets ( <i>Angew. Chem.</i> 4/2019). <i>Angewandte Chemie</i> , 2019, 131, 1232-1232.	2.0	0
82	Eukaryotic Cell Biomimetics: Construction of Eukaryotic Cell Biomimetics: Hierarchical Polymersomes-Proteinosome Multicompartment with Enzymatic Reactions Modulated Protein Transportation ( <i>Small</i> 7/2021). <i>Small</i> , 2021, 17, 2170026.	10.0	0
83	Construction of Hybrid Biomicrocompartments with Exocytosis-Inspired Behavior toward Fast Temperature-Modulated Transportation of Living Organisms ( <i>Angew. Chem.</i> 38/2021). <i>Angewandte Chemie</i> , 2021, 133, 21240-21240.	2.0	0
84	Construction of Hybrid Biomicrocompartments with Exocytosis-Inspired Behavior toward Fast Temperature-Modulated Transportation of Living Organisms. <i>Angewandte Chemie</i> , 2021, 133, 20963-20970.	2.0	0