

Shan Wang

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

1,133
citations

516710

16
h-index

713466

21
g-index

21
all docs

21
docs citations

21
times ranked

1266
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional Constitutional Dynamic Networks Revealing Evolutionary Reproduction/Variation/Selection Principles. <i>Journal of the American Chemical Society</i> , 2020, 142, 14437-14442.	13.7	10
2	Dissipative Constitutional Dynamic Networks for Tunable Transient Responses and Catalytic Functions. <i>Journal of the American Chemical Society</i> , 2020, 142, 17480-17488.	13.7	36
3	Nucleic Acid Based Constitutional Dynamic Networks: From Basic Principles to Applications. <i>Journal of the American Chemical Society</i> , 2020, 142, 21577-21594.	13.7	56
4	Constitutional Dynamic Networks-Guided Synthesis of Programmed "Genes", Transcription of mRNAs, and Translation of Proteins. <i>Journal of the American Chemical Society</i> , 2020, 142, 21460-21468.	13.7	14
5	Enzyme-Guided Selection and Cascaded Emergence of Nanostructured Constitutional Dynamic Networks. <i>Nano Letters</i> , 2020, 20, 5451-5457.	9.1	9
6	Evolution of Nucleic Acid-Based Constitutional Dynamic Networks Revealing Adaptive and Emergent Functions. <i>Angewandte Chemie</i> , 2019, 131, 12366-12373.	2.0	26
7	Stiffness-switchable DNA-based constitutional dynamic network hydrogels for self-healing and matrix-guided controlled chemical processes. <i>Nature Communications</i> , 2019, 10, 4774.	12.8	79
8	Three-Dimensional Nucleic-Acid-Based Constitutional Dynamic Networks: Enhancing Diversity through Complexity of the Systems. <i>Journal of the American Chemical Society</i> , 2019, 141, 16461-16470.	13.7	16
9	Evolution of Nucleic Acid-Based Constitutional Dynamic Networks Revealing Adaptive and Emergent Functions. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12238-12245.	13.8	11
10	Triggered reversible substitution of adaptive constitutional dynamic networks dictates programmed catalytic functions. <i>Science Advances</i> , 2019, 5, eaav5564.	10.3	20
11	Consecutive feedback-driven constitutional dynamic networks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 2843-2848.	7.1	42
12	Light-Induced Reversible Reconfiguration of DNA-Based Constitutional Dynamic Networks: Application to Switchable Catalysis. <i>Angewandte Chemie</i> , 2018, 130, 8237-8241.	2.0	19
13	Light-Induced Reversible Reconfiguration of DNA-Based Constitutional Dynamic Networks: Application to Switchable Catalysis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8105-8109.	13.8	65
14	Switchable Triggered Interconversion and Reconfiguration of DNA Origami Dimers and Their Use for Programmed Catalysis. <i>Nano Letters</i> , 2018, 18, 2718-2724.	9.1	26
15	Triggered Reversible Reconfiguration of G-Quadruplex-Bridged "Domino"-Type Origami Dimers: Application of the Systems for Programmed Catalysis. <i>ACS Nano</i> , 2018, 12, 12324-12336.	14.6	33
16	DNA-Based Multiconstituent Dynamic Networks: Hierarchical Adaptive Control over the Composition and Cooperative Catalytic Functions of the Systems. <i>Journal of the American Chemical Society</i> , 2018, 140, 12077-12089.	13.7	44
17	Intercommunication of DNA-Based Constitutional Dynamic Networks. <i>Journal of the American Chemical Society</i> , 2018, 140, 8721-8731.	13.7	52
18	Mimicking Horseradish Peroxidase Functions Using Cu ²⁺ -Modified Carbon Nitride Nanoparticles or Cu ²⁺ -Modified Carbon Dots as Heterogeneous Catalysts. <i>ACS Nano</i> , 2017, 11, 3247-3253.	14.6	279

#	ARTICLE	IF	CITATIONS
19	Mimicking Horseradish Peroxidase and NADH Peroxidase by Heterogeneous Cu ²⁺ -Modified Graphene Oxide Nanoparticles. Nano Letters, 2017, 17, 2043-2048.	9.1	190
20	Controlling the Catalytic Functions of DNazymes within Constitutional Dynamic Networks of DNA Nanostructures. Journal of the American Chemical Society, 2017, 139, 9662-9671.	13.7	64
21	Orthogonal Operation of Constitutional Dynamic Networks Consisting of DNA-Tweezer Machines. ACS Nano, 2017, 11, 12027-12036.	14.6	42