Shan Wang

List of Publications by Year
in descending order

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	Mimicking Horseradish Peroxidase Functions Using Cu²⁺-Modified Carbon Nitride Nanoparticles or Cu²⁺-Modified Carbon Dots as Heterogeneous Catalysts. ACS Nano, 2017, 11, 3247-3253.	14.6	279
2	Mimicking Horseradish Peroxidase and NADH Peroxidase by Heterogeneous Cu²⁺-Modified Graphene Oxide Nanoparticles. Nano Letters, 2017, 17, 2043-2048.	9.1	190
3	Stiffness-switchable DNA-based constitutional dynamic network hydrogels for self-healing and matrix-guided controlled chemical processes. Nature Communications, 2019, 10, 4774.	12.8	79
4	Lightâ€Induced Reversible Reconfiguration of DNAâ€Based Constitutional Dynamic Networks: Application to Switchable Catalysis. Angewandte Chemie - International Edition, 2018, 57, 8105-8109.	13.8	65
5	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
6	Nucleic Acid Based Constitutional Dynamic Networks: From Basic Principles to Applications. Journal of the American Chemical Society, 2020, 142, 21577-21594.	13.7	56
7	Intercommunication of DNA-Based Constitutional Dynamic Networks. Journal of the American Chemical Society, 2018, 140, 8721-8731.	13.7	52
8	DNA-Based Multiconstituent Dynamic Networks: Hierarchical Adaptive Control over the Composition and Cooperative Catalytic Functions of the Systems. Journal of the American Chemical Society, 2018, 140, 12077-12089.	13.7	44
9	Orthogonal Operation of Constitutional Dynamic Networks Consisting of DNA-Tweezer Machines. ACS Nano, 2017, 11, 12027-12036.	14.6	42
10	Consecutive feedback-driven constitutional dynamic networks. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 2843-2848.	7.1	42
11	Dissipative Constitutional Dynamic Networks for Tunable Transient Responses and Catalytic Functions. Journal of the American Chemical Society, 2020, 142, 17480-17488.	13.7	36
12	Triggered Reversible Reconfiguration of G-Quadruplex-Bridged â€œDominoâ€•Type Origami Dimers: Application of the Systems for Programmed Catalysis. ACS Nano, 2018, 12, 12324-12336.	14.6	33
13	Switchable Triggered Interconversion and Reconfiguration of DNA Origami Dimers and Their Use for Programmed Catalysis. Nano Letters, 2018, 18, 2718-2724.	9.1	26
14	Evolution of Nucleicâ€Acidâ€Based Constitutional Dynamic Networks Revealing Adaptive and Emergent Functions. Angewandte Chemie, 2019, 131, 12366-12373.	2.0	26
15	Triggered reversible substitution of adaptive constitutional dynamic networks dictates programmed catalytic functions. Science Advances, 2019, 5, eaav5564.	10.3	20
16	Lightâ€Induced Reversible Reconfiguration of DNAâ€Based Constitutional Dynamic Networks: Application to Switchable Catalysis. Angewandte Chemie, 2018, 130, 8237-8241.	2.0	19
17	Three-Dimensional Nucleic-Acid-Based Constitutional Dynamic Networks: Enhancing Diversity through Complexity of the Systems. Journal of the American Chemical Society, 2019, 141, 16461-16470.	13.7	16
18	Constitutional Dynamic Networks-Guided Synthesis of Programmed â€œGenesâ€, Transcription of mRNAs, and Translation of Proteins. Journal of the American Chemical Society, 2020, 142, 21460-21468.	13.7	14

#	Article	IF	Citations
19	Evolution of Nucleicâ€Acidâ€Based Constitutional Dynamic Networks Revealing Adaptive and Emergent Functions. Angewandte Chemie - International Edition, 2019, 58, 12238-12245.	13.8	11
20	Functional Constitutional Dynamic Networks Revealing Evolutionary Reproduction/Variation/Selection Principles. Journal of the American Chemical Society, 2020, 142, 14437-14442.	13.7	10
21	Enzyme-Guided Selection and Cascaded Emergence of Nanostructured Constitutional Dynamic Networks. Nano Letters, 2020, 20, 5451-5457.	9.1	9