Jennifer N Cha

List of Publications by Year
in descending order

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63 papers	2,567 citations	279798 23 h-index	189892 50 g-index
65 all docs	65 docs citations	65 times ranked	4066 citing authors

#	Article	IF	Citations
1	Large-area spatially ordered arrays of gold nanoparticles directed by lithographically confined DNA origami. Nature Nanotechnology, 2010, 5, 121-126.	31.5	388
2	Placement and orientation of individual DNA shapes on lithographically patterned surfaces. Nature Nanotechnology, 2009, 4, 557-561.	31.5	346
3	Biophysically Defined and Cytocompatible Covalently Adaptable Networks as Viscoelastic 3D Cell Culture Systems. Advanced Materials, 2014, 26, 865-872.	21.0	337
4	Discrete Nanostructures of Quantum Dots/Au with DNA. Journal of the American Chemical Society, 2004, 126, 10832-10833.	13.7	246
5	DNAâ€Assembled Coreâ€Satellite Upconvertingâ€Metalâ€“Organic Framework Nanoparticle Superstructures for Efficient Photodynamic Therapy. Small, 2017, 13, 1700504.	10.0	114
6	Enhanced Hydrogen Production from DNAâ€Assembled Zâ€Scheme TiO₂â€“CdS Photocatalyst Systems. Angewandte Chemie - International Edition, 2015, 54, 11490-11494.	13.8	73
7	Synthesis and Assembly of Clickâ€Nucleicâ€Acidâ€Containing PEGâ€“PLGA Nanoparticles for DNA Delivery. Advanced Materials, 2017, 29, 1700743.	21.0	71
8	Aptamerâ€Crosslinked Microbubbles: Smart Contrast Agents for Thrombinâ€Activated Ultrasound Imaging. Advanced Materials, 2012, 24, 6010-6016.	21.0	68
9	Self-assembled gold nanostarâ€“NaYF₄:Yb/Er clusters for multimodal imaging, photothermal and photodynamic therapy. Journal of Materials Chemistry B, 2016, 4, 4455-4461.	5.8	50
10	Amplified Protein Detection and Identification through DNA-Conjugated M13 Bacteriophage. ACS Nano, 2012, 6, 5621-5626.	14.6	48
11	Nanoparticle-Mediated Acoustic Cavitation Enables High Intensity Focused Ultrasound Ablation Without Tissue Heating. ACS Applied Materials & Interfaces, 2018, 10, 36786-36795.	8.0	48
12	M13 Bacteriophage as Materials for Amplified Surface Enhanced Raman Scattering Protein Sensing. Advanced Functional Materials, 2014, 24, 2079-2084.	14.9	40
13	Electrostatically Assembled CdS-Co₃O₄Nanostructures for Photo-assisted Water Oxidation and Photocatalytic Reduction of Dye Molecules. Small, 2015, 11, 668-674.	10.0	39
14	TiO₂-Capped Gold Nanorods for Plasmon-Enhanced Production of Reactive Oxygen Species and Photothermal Delivery of Chemotherapeutic Agents. ACS Applied Materials & Interfaces, 2018, 10, 27965-27971.	8.0	36
15	50 nm DNA Nanoarrays Generated from Uniform Oligonucleotide Films. ACS Nano, 2009, 3, 2376-2382.	14.6	31
16	Enzyme Mediated Increase in Methanol Production from Photoelectrochemical Cells and CO₂. ACS Catalysis, 2016, 6, 6982-6986.	11.2	31
17	Experimental and theoretical photoluminescence studies in nucleic acid assembled gold-upconverting nanoparticle clusters. Nanoscale, 2015, 7, 17254-17260.	5.6	28
18	DNAâ€Coated Microbubbles with Biochemically Tunable Ultrasound Contrast Activity. Advanced Materials, 2011, 23, 4908-4912.	21.0	27

#	Article	IF	Citations
19	Multicatalytic, Light-Driven Upgrading of Butanol to 2-Ethylhexenal and Hydrogen under Mild Aqueous Conditions. ACS Catalysis, 2017, 7, 568-572.	11.2	27
20	Catalytic Upgrading in Bacteria-Compatible Conditions via a Biocompatible Aldol Condensation. ACS Sustainable Chemistry and Engineering, 2016, 4, 671-675.	6.7	26
21	InÂvivo ultrasound visualization of non-occlusive blood clots with thrombin-sensitive contrast agents. Biomaterials, 2013, 34, 9559-9565.	11.4	25
22	Surfaceâ€Driven DNA Assembly of Binary Cubic 3D Nanocrystal Superlattices. Small, 2011, 7, 3021-3025.	10.0	24
23	High density DNA loading on the M13 bacteriophage provides access to colorimetric and fluorescent protein microarray biosensors. Chemical Communications, 2013, 49, 1759.	4.1	24
24	Amplified Protein Detection through Visible Plasmon Shifts in Gold Nanocrystal Solutions from Bacteriophage Platforms. Analytical Chemistry, 2011, 83, 3516-3519.	6.5	19
25	Site-Specific Patterning of Highly Ordered Nanocrystal Superlattices through Biomolecular Surface Confinement. ACS Nano, 2010, 4, 5076-5080.	14.6	17
26	Facile one-pot synthesis of polymerâ€“phospholipid composite microbubbles with enhanced drug loading capacity for ultrasound-triggered therapy. Soft Matter, 2011, 7, 1656.	2.7	17
27	Creating highly amplified enzyme-linked immunosorbent assay signals from genetically engineered bacteriophage. Analytical Biochemistry, 2015, 470, 7-13.	2.4	17
28	Semiconductorâ€Based, Solarâ€Driven Photochemical Cells for Fuel Generation from Carbon Dioxide in Aqueous Solutions. ChemSusChem, 2016, 9, 3188-3195.	6.8	17
29	Nongenetic Bioconjugation Strategies for Modifying Cell Membranes and Membrane Proteins: A Review. Bioconjugate Chemistry, 2020, 31, 2465-2475.	3.6	17
30	DNA mediated assembly of single walled carbon nanotubes: role of DNA linkers and annealing. Physical Chemistry Chemical Physics, 2011, 13, 10004.	2.8	16
31	Light-Driven Catalytic Upgrading of Butanol in a Biohybrid Photoelectrochemical System. ACS Sustainable Chemistry and Engineering, 2017, 5, 8199-8204.	6.7	16
32	New Generation of Clickable Nucleic Acids: Synthesis and Active Hybridization with DNA. Biomacromolecules, 2018, 19, 4139-4146.	5.4	16
33	Switchable Nanodumbbell Probes for Analyte Detection. Small, 2013, 9, 228-232.	10.0	15
34	Synthesis and phase transfer of well-defined BiVO₄ nanocrystals for photocatalytic water splitting. RSC Advances, 2015, 5, 58755-58759.	3.6	14
35	Click Nucleic Acid Mediated Loading of Prodrug Activating Enzymes in PEGâ€“PLGA Nanoparticles for Combination Chemotherapy. Biomacromolecules, 2019, 20, 1683-1690.	5.4	14
36	Direct conjugation of DNA to quantum dots for scalable assembly of photoactive thin films. RSC Advances, 2014, 4, 8064.	3.6	13

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37	Renewable Hydride Donors for the Catalytic Reduction of CO₂: A Thermodynamic and Kinetic Study. Journal of Physical Chemistry B, 2018, 122, 10179-10189.	2.6	13
38	Anti-EGFR Affibodies with Site-Specific Photo-Cross-Linker Incorporation Show Both Directed Target-Specific Photoconjugation and Increased Retention in Tumors. Journal of the American Chemical Society, 2018, 140, 11820-11828.	13.7	13
39	Boranephosphonate DNA-Mediated Metallization of Single-Walled Carbon Nanotubes. Chemistry of Materials, 2017, 29, 2239-2245.	6.7	12
40	Imparting the unique properties of DNA into complex material architectures and functions. Materials Today, 2013, 16, 290-296.	14.2	10
41	Aniline-terminated DNA catalyzes rapid DNAâ€“hydrazone formation at physiological pH. Chemical Communications, 2014, 50, 3831-3833.	4.1	10
42	High-Yielding and Photolabile Approaches to the Covalent Attachment of Biomolecules to Surfaces via Hydrazone Chemistry. Langmuir, 2014, 30, 8452-8460.	3.5	10
43	Water-soluble clickable nucleic acid (CNA) polymer synthesis by functionalizing the pendant hydroxyl. Chemical Communications, 2017, 53, 10156-10159.	4.1	10
44	Synthesis of Small-Molecule/DNA Hybrids through On-Bead Amide-Coupling Approach. Journal of Organic Chemistry, 2017, 82, 10803-10811.	3.2	8
45	DNA for Assembly and Charge Transport Photocatalytic Reduction of CO₂. Advanced Sustainable Systems, 2018, 2, 1700156.	5.3	8
46	Surface-Templated Nanobubbles Protect Proteins from Surface-Mediated Denaturation. Journal of Physical Chemistry Letters, 2019, 10, 2641-2647.	4.6	8
47	Investigating Proteinâ€“Nanocrystal Interactions for Photodriven Activity. ACS Applied Bio Materials, 2020, 3, 1026-1035.	4.6	8
48	Isothermal rolling circle amplification of virus genomes for rapid antigen detection and typing. Analyst, The, 2015, 140, 5138-5144.	3.5	7
49	Enhanced Raman signals from switchable nanoparticle probes. Chemical Communications, 2013, 49, 8994.	4.1	6
50	Conversion of Ethanol to 2-Ethylhexenal at Ambient Conditions Using Tandem, Biphasic Catalysis. ACS Sustainable Chemistry and Engineering, 2017, 5, 10483-10489.	6.7	6
51	Enzymes Photo-Cross-Linked to Live Cell Receptors Retain Activity and EGFR Inhibition after Both Internalization and Recycling. Bioconjugate Chemistry, 2020, 31, 104-112.	3.6	6
52	Solar Photocatalytic Phenol Polymerization and Hydrogen Generation for Flocculation of Wastewater Impurities. ACS Applied Polymer Materials, 2019, 1, 1451-1457.	4.4	4
53	Bridging bio-nano interactions with photoactive biohybrid energy systems. Molecular Systems Design and Engineering, 2020, 5, 1088-1097.	3.4	4
54	Efficient cellular uptake of click nucleic acid modified proteins. Chemical Communications, 2020, 56, 4820-4823.	4.1	4

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55	DNA assembled photoactive systems. Current Opinion in Colloid and Interface Science, 2018, 38, 18-29.	7.4	3
56	Post-synthetic functionalization of a polysulfone scaffold with hydrazone-linked functionality. Polymer Chemistry, 2018, 9, 3791-3797.	3.9	3
57	Hydrophobically Modified Silica-Coated Gold Nanorods for Generating Nonlinear Photoacoustic Signals. ACS Applied Nano Materials, 2021, 4, 12073-12082.	5.0	3
58	Investigating the use of conducting oligomers and redox molecules in CdSâ€“MoFeP biohybrids. Nanoscale Advances, 2021, 3, 1392-1396.	4.6	2
59	Generation of 3D cellular spheroids using DNA modified cell receptors and programmable DNA interactions. Biomaterials Science, 2021, 9, 7911-7920.	5.4	2
60	Selfâ€assembly and reassembly of fiberâ€forming dipeptides for pHâ€triggered DNA delivery. Journal of Polymer Science Part A, 2015, 53, 183-187.	2.3	1
61	Polymer Nanoparticles: Synthesis and Assembly of Clickâ€Nucleicâ€Acidâ€Containing PEGâ€“PLGA Nanoparticles for DNA Delivery (Adv. Mater. 24/2017). Advanced Materials, 2017, 29, .	21.0	1
62	Effect of Covalent Photoconjugation of Affibodies to Epidermal Growth Factor Receptor (EGFR) on Cellular Quiescence. Biotechnology and Bioengineering, 2022, 119, 187-198.	3.3	1
63	Photocatalysis: Electrostatically Assembled CdS-Co3O4Nanostructures for Photo-assisted Water Oxidation and Photocatalytic Reduction of Dye Molecules (Small 6/2015). Small, 2015, 11, 667-667.	10.0	0