

Jennifer N Cha

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

2,567
citations

279487

23
h-index

189595

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. <i>Nature Nanotechnology</i> , 2010, 5, 121-126.	15.6	388
2	Placement and orientation of individual DNA shapes on lithographically patterned surfaces. <i>Nature Nanotechnology</i> , 2009, 4, 557-561.	15.6	346
3	Biophysically Defined and Cytocompatible Covalently Adaptable Networks as Viscoelastic 3D Cell Culture Systems. <i>Advanced Materials</i> , 2014, 26, 865-872.	11.1	337
4	Discrete Nanostructures of Quantum Dots/Au with DNA. <i>Journal of the American Chemical Society</i> , 2004, 126, 10832-10833.	6.6	246
5	DNA-Assembled Core-Satellite Upconverting-Metal-Organic Framework Nanoparticle Superstructures for Efficient Photodynamic Therapy. <i>Small</i> , 2017, 13, 1700504.	5.2	114
6	Enhanced Hydrogen Production from DNA-Assembled ZrO ₂ -CdS Photocatalyst Systems. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11490-11494.	7.2	73
7	Synthesis and Assembly of Click-Nucleic Acid-Containing PEG-PLGA Nanoparticles for DNA Delivery. <i>Advanced Materials</i> , 2017, 29, 1700743.	11.1	71
8	Aptamer-Crosslinked Microbubbles: Smart Contrast Agents for Thrombin-Activated Ultrasound Imaging. <i>Advanced Materials</i> , 2012, 24, 6010-6016.	11.1	68
9	Self-assembled gold nanostar-NaYF ₄ :Yb/Er clusters for multimodal imaging, photothermal and photodynamic therapy. <i>Journal of Materials Chemistry B</i> , 2016, 4, 4455-4461.	2.9	50
10	Amplified Protein Detection and Identification through DNA-Conjugated M13 Bacteriophage. <i>ACS Nano</i> , 2012, 6, 5621-5626.	7.3	48
11	Nanoparticle-Mediated Acoustic Cavitation Enables High Intensity Focused Ultrasound Ablation Without Tissue Heating. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 36786-36795.	4.0	48
12	M13 Bacteriophage as Materials for Amplified Surface Enhanced Raman Scattering Protein Sensing. <i>Advanced Functional Materials</i> , 2014, 24, 2079-2084.	7.8	40
13	Electrostatically Assembled CdS-Co ₃ O ₄ Nanostructures for Photo-assisted Water Oxidation and Photocatalytic Reduction of Dye Molecules. <i>Small</i> , 2015, 11, 668-674.	5.2	39
14	TiO ₂ -Capped Gold Nanorods for Plasmon-Enhanced Production of Reactive Oxygen Species and Photothermal Delivery of Chemotherapeutic Agents. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 27965-27971.	4.0	36
15	50 nm DNA Nanoarrays Generated from Uniform Oligonucleotide Films. <i>ACS Nano</i> , 2009, 3, 2376-2382.	7.3	31
16	Enzyme Mediated Increase in Methanol Production from Photoelectrochemical Cells and CO ₂ . <i>ACS Catalysis</i> , 2016, 6, 6982-6986.	5.5	31
17	Experimental and theoretical photoluminescence studies in nucleic acid assembled gold-upconverting nanoparticle clusters. <i>Nanoscale</i> , 2015, 7, 17254-17260.	2.8	28
18	DNA-Coated Microbubbles with Biochemically Tunable Ultrasound Contrast Activity. <i>Advanced Materials</i> , 2011, 23, 4908-4912.	11.1	27

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19	Multicatalytic, Light-Driven Upgrading of Butanol to 2-Ethylhexenal and Hydrogen under Mild Aqueous Conditions. <i>ACS Catalysis</i> , 2017, 7, 568-572.	5.5	27
20	Catalytic Upgrading in Bacteria-Compatible Conditions via a Biocompatible Aldol Condensation. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 671-675.	3.2	26
21	InÂvivo ultrasound visualization of non-occlusive blood clots with thrombin-sensitive contrast agents. <i>Biomaterials</i> , 2013, 34, 9559-9565.	5.7	25
22	Surface-Driven DNA Assembly of Binary Cubic 3D Nanocrystal Superlattices. <i>Small</i> , 2011, 7, 3021-3025.	5.2	24
23	High density DNA loading on the M13 bacteriophage provides access to colorimetric and fluorescent protein microarray biosensors. <i>Chemical Communications</i> , 2013, 49, 1759.	2.2	24
24	Amplified Protein Detection through Visible Plasmon Shifts in Gold Nanocrystal Solutions from Bacteriophage Platforms. <i>Analytical Chemistry</i> , 2011, 83, 3516-3519.	3.2	19
25	Site-Specific Patterning of Highly Ordered Nanocrystal Superlattices through Biomolecular Surface Confinement. <i>ACS Nano</i> , 2010, 4, 5076-5080.	7.3	17
26	Facile one-pot synthesis of polymer-phospholipid composite microbubbles with enhanced drug loading capacity for ultrasound-triggered therapy. <i>Soft Matter</i> , 2011, 7, 1656.	1.2	17
27	Creating highly amplified enzyme-linked immunosorbent assay signals from genetically engineered bacteriophage. <i>Analytical Biochemistry</i> , 2015, 470, 7-13.	1.1	17
28	Semiconductor-Based, Solar-Driven Photochemical Cells for Fuel Generation from Carbon Dioxide in Aqueous Solutions. <i>ChemSusChem</i> , 2016, 9, 3188-3195.	3.6	17
29	Nongenetic Bioconjugation Strategies for Modifying Cell Membranes and Membrane Proteins: A Review. <i>Bioconjugate Chemistry</i> , 2020, 31, 2465-2475.	1.8	17
30	DNA mediated assembly of single walled carbon nanotubes: role of DNA linkers and annealing. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 10004.	1.3	16
31	Light-Driven Catalytic Upgrading of Butanol in a Biohybrid Photoelectrochemical System. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8199-8204.	3.2	16
32	New Generation of Clickable Nucleic Acids: Synthesis and Active Hybridization with DNA. <i>Biomacromolecules</i> , 2018, 19, 4139-4146.	2.6	16
33	Switchable Nanodumbbell Probes for Analyte Detection. <i>Small</i> , 2013, 9, 228-232.	5.2	15
34	Synthesis and phase transfer of well-defined BiVO ₄ nanocrystals for photocatalytic water splitting. <i>RSC Advances</i> , 2015, 5, 58755-58759.	1.7	14
35	Click Nucleic Acid Mediated Loading of Prodrug Activating Enzymes in PEG-PLGA Nanoparticles for Combination Chemotherapy. <i>Biomacromolecules</i> , 2019, 20, 1683-1690.	2.6	14
36	Direct conjugation of DNA to quantum dots for scalable assembly of photoactive thin films. <i>RSC Advances</i> , 2014, 4, 8064.	1.7	13

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37	Renewable Hydride Donors for the Catalytic Reduction of CO ₂ : A Thermodynamic and Kinetic Study. <i>Journal of Physical Chemistry B</i> , 2018, 122, 10179-10189.	1.2	13
38	Anti-EGFR Affibodies with Site-Specific Photo-Cross-Linker Incorporation Show Both Directed Target-Specific Photoconjugation and Increased Retention in Tumors. <i>Journal of the American Chemical Society</i> , 2018, 140, 11820-11828.	6.6	13
39	Boranephosphonate DNA-Mediated Metallization of Single-Walled Carbon Nanotubes. <i>Chemistry of Materials</i> , 2017, 29, 2239-2245.	3.2	12
40	Imparting the unique properties of DNA into complex material architectures and functions. <i>Materials Today</i> , 2013, 16, 290-296.	8.3	10
41	Aniline-terminated DNA catalyzes rapid DNA-hydrazone formation at physiological pH. <i>Chemical Communications</i> , 2014, 50, 3831-3833.	2.2	10
42	High-Yielding and Photolabile Approaches to the Covalent Attachment of Biomolecules to Surfaces via Hydrazone Chemistry. <i>Langmuir</i> , 2014, 30, 8452-8460.	1.6	10
43	Water-soluble clickable nucleic acid (CNA) polymer synthesis by functionalizing the pendant hydroxyl. <i>Chemical Communications</i> , 2017, 53, 10156-10159.	2.2	10
44	Synthesis of Small-Molecule/DNA Hybrids through On-Bead Amide-Coupling Approach. <i>Journal of Organic Chemistry</i> , 2017, 82, 10803-10811.	1.7	8
45	DNA for Assembly and Charge Transport Photocatalytic Reduction of CO ₂ . <i>Advanced Sustainable Systems</i> , 2018, 2, 1700156.	2.7	8
46	Surface-Templated Nanobubbles Protect Proteins from Surface-Mediated Denaturation. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2641-2647.	2.1	8
47	Investigating Protein-Nanocrystal Interactions for Photodriven Activity. <i>ACS Applied Bio Materials</i> , 2020, 3, 1026-1035.	2.3	8
48	Isothermal rolling circle amplification of virus genomes for rapid antigen detection and typing. <i>Analyst</i> , 2015, 140, 5138-5144.	1.7	7
49	Enhanced Raman signals from switchable nanoparticle probes. <i>Chemical Communications</i> , 2013, 49, 8994.	2.2	6
50	Conversion of Ethanol to 2-Ethylhexenal at Ambient Conditions Using Tandem, Biphasic Catalysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 10483-10489.	3.2	6
51	Enzymes Photo-Cross-Linked to Live Cell Receptors Retain Activity and EGFR Inhibition after Both Internalization and Recycling. <i>Bioconjugate Chemistry</i> , 2020, 31, 104-112.	1.8	6
52	Solar Photocatalytic Phenol Polymerization and Hydrogen Generation for Flocculation of Wastewater Impurities. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1451-1457.	2.0	4
53	Bridging bio-nano interactions with photoactive biohybrid energy systems. <i>Molecular Systems Design and Engineering</i> , 2020, 5, 1088-1097.	1.7	4
54	Efficient cellular uptake of click nucleic acid modified proteins. <i>Chemical Communications</i> , 2020, 56, 4820-4823.	2.2	4

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55	DNA assembled photoactive systems. <i>Current Opinion in Colloid and Interface Science</i> , 2018, 38, 18-29.	3.4	3
56	Post-synthetic functionalization of a polysulfone scaffold with hydrazone-linked functionality. <i>Polymer Chemistry</i> , 2018, 9, 3791-3797.	1.9	3
57	Hydrophobically Modified Silica-Coated Gold Nanorods for Generating Nonlinear Photoacoustic Signals. <i>ACS Applied Nano Materials</i> , 2021, 4, 12073-12082.	2.4	3
58	Investigating the use of conducting oligomers and redox molecules in CdS@MoFeP biohybrids. <i>Nanoscale Advances</i> , 2021, 3, 1392-1396.	2.2	2
59	Generation of 3D cellular spheroids using DNA modified cell receptors and programmable DNA interactions. <i>Biomaterials Science</i> , 2021, 9, 7911-7920.	2.6	2
60	Self-assembly and reassembly of fiber-forming dipeptides for pH-triggered DNA delivery. <i>Journal of Polymer Science Part A</i> , 2015, 53, 183-187.	2.5	1
61	Polymer Nanoparticles: Synthesis and Assembly of Click-Nucleic Acid-Containing PEG-PLGA Nanoparticles for DNA Delivery (<i>Adv. Mater.</i> 24/2017). <i>Advanced Materials</i> , 2017, 29, .	11.1	1
62	Effect of Covalent Photoconjugation of Affibodies to Epidermal Growth Factor Receptor (EGFR) on Cellular Quiescence. <i>Biotechnology and Bioengineering</i> , 2022, 119, 187-198.	1.7	1
63	Photocatalysis: Electrostatically Assembled CdS-Co ₃ O ₄ Nanostructures for Photo-assisted Water Oxidation and Photocatalytic Reduction of Dye Molecules (<i>Small</i> 6/2015). <i>Small</i> , 2015, 11, 667-667.	5.2	0