

Jong Hyun Choi

List of Publications by Year in descending order

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49
papers

2,486
citations

304368

22
h-index

214527

47
g-index

55
all docs

55
docs citations

55
times ranked

3771
citing authors

#	ARTICLE	IF	CITATIONS
1	Multimodal Biomedical Imaging with Asymmetric Single-Walled Carbon Nanotube/Iron Oxide Nanoparticle Complexes. <i>Nano Letters</i> , 2007, 7, 861-867.	4.5	268
2	A synthetic DNA motor that transports nanoparticles along carbon nanotubes. <i>Nature Nanotechnology</i> , 2014, 9, 39-43.	15.6	238
3	Aptamer-Capped Nanocrystal Quantum Dots: A New Method for Label-Free Protein Detection. <i>Journal of the American Chemical Society</i> , 2006, 128, 15584-15585.	6.6	196
4	Solvatochromism in single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2007, 90, 223114.	1.5	193
5	Modulating Optoelectronic Properties of Two-Dimensional Transition Metal Dichalcogenide Semiconductors by Photoinduced Charge Transfer. <i>ACS Nano</i> , 2016, 10, 1671-1680.	7.3	154
6	Recent progress on DNA based walkers. <i>Current Opinion in Biotechnology</i> , 2015, 34, 56-64.	3.3	127
7	Photoelectrochemical complexes for solar energy conversion that chemically and autonomously regenerate. <i>Nature Chemistry</i> , 2010, 2, 929-936.	6.6	126
8	Single-walled carbon nanotubes as optical probes for bio-sensing and imaging. <i>Journal of Materials Chemistry B</i> , 2017, 5, 6511-6522.	2.9	102
9	Structural DNA Nanotechnology: Artificial Nanostructures for Biomedical Research. <i>Annual Review of Biomedical Engineering</i> , 2018, 20, 375-401.	5.7	102
10	Design Principles of DNA Enzyme-Based Walkers: Translocation Kinetics and Photoregulation. <i>Journal of the American Chemical Society</i> , 2015, 137, 9429-9437.	6.6	97
11	Optical Nanosensor Architecture for Cell-Signaling Molecules Using DNA Aptamer-Coated Carbon Nanotubes. <i>ACS Nano</i> , 2011, 5, 4236-4244.	7.3	78
12	Biomimetic strategies for solar energy conversion: a technical perspective. <i>Energy and Environmental Science</i> , 2011, 4, 3834.	15.6	69
13	Understanding Solvent Effects on the Properties of Two-Dimensional Transition Metal Dichalcogenides. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 8864-8869.	4.0	67
14	Dynamic and Progressive Control of DNA Origami Conformation by Modulating DNA Helicity with Chemical Adducts. <i>ACS Nano</i> , 2016, 10, 4989-4996.	7.3	61
15	Understanding the Mechanical Properties of DNA Origami Tiles and Controlling the Kinetics of Their Folding and Unfolding Reconfiguration. <i>Journal of the American Chemical Society</i> , 2014, 136, 6995-7005.	6.6	59
16	Conformational Effects of UV Light on DNA Origami. <i>Journal of the American Chemical Society</i> , 2017, 139, 1380-1383.	6.6	50
17	Visible/near-infrared subdiffraction imaging reveals the stochastic nature of DNA walkers. <i>Science Advances</i> , 2017, 3, e1601600.	4.7	45
18	A DNAzyme-mediated logic gate for programming molecular capture and release on DNA origami. <i>Chemical Communications</i> , 2016, 52, 8369-8372.	2.2	38

#	ARTICLE	IF	CITATIONS
19	Perovskite nickelates as bio-electronic interfaces. <i>Nature Communications</i> , 2019, 10, 1651.	5.8	33
20	Engineering Chemically Exfoliated Large-Area Two-Dimensional MoS ₂ Nanolayers with Porphyrins for Improved Light Harvesting. <i>ChemPhysChem</i> , 2016, 17, 2854-2862.	1.0	32
21	Nanomanufacturing of 2D Transition Metal Dichalcogenide Materials Using Self-Assembled DNA Nanotubes. <i>Small</i> , 2015, 11, 5520-5527.	5.2	29
22	Tailoring photoelectrochemical properties of semiconducting transition metal dichalcogenide nanolayers with porphyrin functionalization. <i>Journal of Materials Chemistry C</i> , 2017, 5, 11233-11238.	2.7	28
23	Mimicking Chemotactic Cell Migration with DNA Programmable Synthetic Vesicles. <i>Nano Letters</i> , 2019, 19, 9138-9144.	4.5	25
24	Multiplexed Optical Detection of Plasma Porphyrins Using DNA Aptamer-Functionalized Carbon Nanotubes. <i>Analytical Chemistry</i> , 2013, 85, 8391-8396.	3.2	22
25	DNA Aptamer-Passivated Nanocrystal Synthesis: A Facile Approach for Nanoparticle-Based Cancer Cell Growth Inhibition. <i>Small</i> , 2009, 5, 672-675.	5.2	21
26	DNA Oligonucleotide Templated Nanohybrids Using Electronic Type Sorted Carbon Nanotubes for Light Harvesting. <i>Advanced Materials</i> , 2012, 24, 5447-5451.	11.1	21
27	Understanding Photophysical Interactions of Semiconducting Carbon Nanotubes with Porphyrin Chromophores. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11612-11619.	1.5	21
28	DNA Walker-Regulated Cancer Cell Growth Inhibition. <i>ChemBioChem</i> , 2016, 17, 1138-1141.	1.3	20
29	Recent progress in 2D hybrid heterostructures from transition metal dichalcogenides and organic layers: properties and applications in energy and optoelectronics fields. <i>Nanoscale</i> , 2022, 14, 10648-10689.	2.8	20
30	Layer-Number-Dependent Electronic and Optoelectronic Properties of 2D WSe ₂ -Organic Hybrid Heterojunction. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900637.	1.9	18
31	Hierarchically assembled DNA origami tubules with reconfigurable chirality. <i>Nanotechnology</i> , 2013, 24, 435601.	1.3	16
32	Auxetic Two-Dimensional Nanostructures from DNA**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 7165-7173.	7.2	15
33	Selective Chemical Modulation of Interlayer Excitons in Atomically Thin Heterostructures. <i>Nano Letters</i> , 2020, 20, 2500-2506.	4.5	14
34	High-Performance Supercapacitor Electrodes Based on Composites of MoS ₂ Nanosheets, Carbon Nanotubes, and ZIF-8 Metal-Organic Framework Nanoparticles. <i>ACS Applied Nano Materials</i> , 2022, 5, 1491-1499.	2.4	13
35	A review on optical imaging of DNA nanostructures and dynamic processes. <i>Methods and Applications in Fluorescence</i> , 2019, 7, 012002.	1.1	9
36	Mechanistic Understanding of Surface Migration Dynamics with DNA Walkers. <i>Journal of Physical Chemistry B</i> , 2021, 125, 507-517.	1.2	9

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37	Topological Assembly of a Deployable Hoberman Flight Ring from DNA. <i>Small</i> , 2021, 17, e2007069.	5.2	8
38	Programmable Aggregation of Artificial Cells with DNA Signals. <i>ACS Synthetic Biology</i> , 2021, 10, 1268-1276.	1.9	7
39	DNA Walkers as Transport Vehicles of Nanoparticles Along a Carbon Nanotube Track. <i>Methods in Molecular Biology</i> , 2017, 1500, 269-280.	0.4	6
40	Regeneration of Light-Harvesting Complexes via Dynamic Replacement of Photodegraded Chromophores. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7833-7837.	4.0	5
41	Elucidating the Mechanical Energy for Cyclization of a DNA Origami Tile. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 2357.	1.3	5
42	Engineering the Nanoscaled Morphologies of Linear DNA Homopolymers. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2100217.	2.0	5
43	Understanding the Effects of Dielectric Property, Separation Distance, and Band Alignment on Interlayer Excitons in 2D Hybrid MoS ₂ /WSe ₂ Heterostructures. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3052-3059.	2.0	5
44	Temperature behavior of the photoluminescence decay of semiconducting carbon nanotubes: The effective lifetime. <i>Physical Review B</i> , 2007, 75, .	1.1	4
45	Conformational Control of DNA Origami by DNA Oligomers, Intercalators and UV Light. <i>Methods and Protocols</i> , 2021, 4, 38.	0.9	2
46	Local direction change of surface gliding microtubules. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1128-1138.	1.7	1
47	Auxetic Two-Dimensional Nanostructures from DNA**. <i>Angewandte Chemie</i> , 2021, 133, 7241-7249.	1.6	1
48	Light Harvesting Single Wall Carbon Nanotube Hybrids. , 2010, , .		0
49	Optical Nanosensors Based on DNA-Coated Single Carbon Nanotubes for Biomolecular Detection. , 2010, , .		0