

Dmytro Nykypanchuk

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

3,613
citations

279798

23
h-index

233421

45
g-index

46
all docs

46
docs citations

46
times ranked

4910
citing authors

#	ARTICLE	IF	CITATIONS
1	DNA-guided crystallization of colloidal nanoparticles. <i>Nature</i> , 2008, 451, 549-552.	27.8	1,420
2	Switching binary states of nanoparticle superlattices and dimer clusters by DNA strands. <i>Nature Nanotechnology</i> , 2010, 5, 116-120.	31.5	268
3	Stepwise surface encoding for high-throughput assembly of nanoclusters. <i>Nature Materials</i> , 2009, 8, 388-391.	27.5	253
4	Shapeshifting: Reversible Shape Memory in Semicrystalline Elastomers. <i>Macromolecules</i> , 2014, 47, 1768-1776.	4.8	171
5	Structural Basis for Metallic-Like Conductivity in Microbial Nanowires. <i>MBio</i> , 2015, 6, e00084.	4.1	171
6	Brownian Motion of DNA Confined Within a Two-Dimensional Array. <i>Science</i> , 2002, 297, 987-990.	12.6	144
7	A Simple Method for Kinetic Control of DNA-Induced Nanoparticle Assembly. <i>Journal of the American Chemical Society</i> , 2006, 128, 14020-14021.	13.7	106
8	Stimuli-Responsive Materials with Self-Healing Antifouling Surface via 3D Polymer Grafting. <i>Advanced Functional Materials</i> , 2013, 23, 4593-4600.	14.9	96
9	DNA-Regulated Micro- and Nanoparticle Assembly. <i>Small</i> , 2007, 3, 1678-1682.	10.0	83
10	Nitrogen-Doping Induced Self-Assembly of Graphene Nanoribbon-Based Two-Dimensional and Three-Dimensional Metamaterials. <i>Nano Letters</i> , 2015, 15, 5770-5777.	9.1	80
11	Two-Dimensional DNA-Programmable Assembly of Nanoparticles at Liquid Interfaces. <i>Journal of the American Chemical Society</i> , 2014, 136, 8323-8332.	13.7	73
12	Linear Mesosstructures in DNA-Nanorod Self-Assembly. <i>ACS Nano</i> , 2013, 7, 5437-5445.	14.6	72
13	DNA-Based Approach for Interparticle Interaction Control. <i>Langmuir</i> , 2007, 23, 6305-6314.	3.5	61
14	Tunable Nanoparticle Arrays at Charged Interfaces. <i>ACS Nano</i> , 2014, 8, 9857-9866.	14.6	61
15	Advancing Reversible Shape Memory by Tuning the Polymer Network Architecture. <i>Macromolecules</i> , 2016, 49, 1383-1391.	4.8	55
16	One-Shot Synthesis and Melt Self-Assembly of Bottlebrush Copolymers with a Gradient Compositional Profile. <i>ACS Macro Letters</i> , 2018, 7, 619-623.	4.8	41
17	Bottlebrush-Guided Polymer Crystallization Resulting in Supersoft and Reversibly Moldable Physical Networks. <i>Macromolecules</i> , 2017, 50, 2103-2111.	4.8	38
18	Valence-programmable nanoparticle architectures. <i>Nature Communications</i> , 2020, 11, 2279.	12.8	37

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19	Stratification during evaporative assembly of multicomponent nanoparticle films. <i>Journal of Colloid and Interface Science</i> , 2018, 515, 70-77.	9.4	36
20	Super-compressible DNA nanoparticle lattices. <i>Soft Matter</i> , 2013, 9, 10452.	2.7	29
21	Morphological Behavior of Compositionally Gradient Polystyrene- <i>Polylactide</i> Bottlebrush Copolymers. <i>Macromolecules</i> , 2019, 52, 8217-8226.	4.8	27
22	X-ray Scattering and Coarse-Grained Simulations for Clustering and Interactions of Monoclonal Antibodies at High Concentrations. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5274-5290.	2.6	27
23	Designed and biologically active protein lattices. <i>Nature Communications</i> , 2021, 12, 3702.	12.8	25
24	Highly efficient solid state catalysis by reconstructed (001) Ceria surface. <i>Scientific Reports</i> , 2014, 4, 4627.	3.3	24
25	Mesoporous Polymer Frameworks from End-Reactive Bottlebrush Copolymers. <i>ACS Nano</i> , 2017, 11, 8207-8214.	14.6	21
26	Shape Memory Alloy Bimorph Microactuators by Lift-Off Process. <i>Journal of Micro and Nano-Manufacturing</i> , 2020, 8, .	0.7	19
27	Single Molecule Visualizations of Polymer Partitioning within Model Pore Geometries. <i>Macromolecules</i> , 2005, 38, 145-150.	4.8	18
28	Controlling the 3-D morphology of Ni-Fe-based nanocatalysts for the oxygen evolution reaction. <i>Nanoscale</i> , 2019, 11, 8170-8184.	5.6	18
29	Hydrophobic Molecule Monolayer Brush-Tethered Zinc Anodes for Aqueous Zinc Batteries. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 60092-60098.	8.0	18
30	Phase Behavior of Alkyne-Functionalized Styrenic Block Copolymer/Cobalt Carbonyl Adducts and <i>In Situ</i> Formation of Magnetic Nanoparticles by Thermolysis. <i>Macromolecules</i> , 2016, 49, 853-865.	4.8	14
31	Plasmonic response of DNA-assembled gold nanorods: Effect of DNA linker length, temperature and linker/nanoparticles ratio. <i>Journal of Colloid and Interface Science</i> , 2014, 433, 34-42.	9.4	13
32	Enhanced photovoltaic performance of ultrathin Si solar cells via semiconductor nanocrystal sensitization: energy transfer vs. optical coupling effects. <i>Nanoscale</i> , 2016, 8, 5873-5883.	5.6	11
33	Temperature-dependent structure and compressive mechanical behavior of alginate/polyethylene oxide-poly(propylene oxide)-poly(ethylene oxide) hydrogels. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 834-844.	3.4	11
34	Compact Peptoid Molecular Brushes for Nanoparticle Stabilization. <i>Journal of the American Chemical Society</i> , 2022, 144, 8138-8152.	13.7	11
35	Improving the Responsivity of Hybrid Graphene-Conductive Polymer Photodetectors via Nanowire Self-Assembly. <i>ACS Photonics</i> , 2018, 5, 4296-4302.	6.6	10
36	Synthesis and Characterization of Ultrathin FeTe ₂ Nanocrystals. <i>ACS Omega</i> , 2021, 6, 10537-10546.	3.5	9

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37	Long Range Self-Assembly of Polythiophene Breath Figures: Optical and Morphological Characterization. <i>Advanced Functional Materials</i> , 2015, 25, 5902-5909.	14.9	8
38	Polyethylene Glycol Crowder's Effect on Enzyme Aggregation, Thermal Stability, and Residual Catalytic Activity. <i>Langmuir</i> , 2021, 37, 8474-8485.	3.5	8
39	<i>In Situ</i> Tracking of Nonthermal Plasma Etching of ZIF-8 Films. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 19023-19030.	8.0	7
40	Onset of interfacial waves in the terahertz spectrum of a nanoparticle suspension. <i>Physical Review E</i> , 2020, 102, 022601.	2.1	6
41	Transmission X-ray scattering as a probe for complex liquid-surface structures. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 519-531.	2.4	4
42	Stimuli-Responsive Materials: Stimuli-Responsive Materials with Self-Healing Antifouling Surface via 3D Polymer Grafting (<i>Adv. Funct. Mater.</i> 36/2013). <i>Advanced Functional Materials</i> , 2013, 23, 4390-4390.	14.9	3
43	Relationship between liquid nanoscale structure in solvents and the strength of the Hofmeister effect in extraction experiments. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 6266-6277.	2.8	3
44	Diffusion of Circular DNA in Two-Dimensional Cavity Arrays. <i>ChemPhysChem</i> , 2009, 10, 2847-2851.	2.1	2
45	Optical simulation of ultimate performance enhancement in ultrathin Si solar cells by semiconductor nanocrystal energy transfer sensitization. <i>Nanoscale Advances</i> , 2021, 3, 991-996.	4.6	1
46	Thin Films: Long Range Self-Assembly of Polythiophene Breath Figures: Optical and Morphological Characterization (<i>Adv. Funct. Mater.</i> 37/2015). <i>Advanced Functional Materials</i> , 2015, 25, 5878-5878.	14.9	0