

# Nicholas A Kotov

## List of Publications by Year in descending order

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506  
papers

62,542  
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433

131  
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981

237  
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537  
all docs

537  
docs citations

537  
times ranked

56065  
citing authors

#	ARTICLE	IF	CITATIONS
1	Present and Future of Surface-Enhanced Raman Scattering. ACS Nano, 2020, 14, 28-117.	7.3	2,153
2	Structural diversity in binary nanoparticle superlattices. Nature, 2006, 439, 55-59.	13.7	1,956
3	Spontaneous Organization of Single CdTe Nanoparticles into Luminescent Nanowires. Science, 2002, 297, 237-240.	6.0	1,778
4	Ultrastrong and Stiff Layered Polymer Nanocomposites. Science, 2007, 318, 80-83.	6.0	1,500
5	Nanostructured artificial nacre. Nature Materials, 2003, 2, 413-418.	13.3	1,362
6	Biomedical Applications of Layer-by-Layer Assembly: From Biomimetics to Tissue Engineering. Advanced Materials, 2006, 18, 3203-3224.	11.1	1,214
7	Diverse Applications of Nanomedicine. ACS Nano, 2017, 11, 2313-2381.	7.3	976
8	Molecular design of strong single-wall carbon nanotube/polyelectrolyte multilayer composites. Nature Materials, 2002, 1, 190-194.	13.3	949
9	Three-Dimensional Cell Culture Matrices: State of the Art. Tissue Engineering - Part B: Reviews, 2008, 14, 61-86.	2.5	895
10	Self-Assembly of CdTe Nanocrystals into Free-Floating Sheets. Science, 2006, 314, 274-278.	6.0	824
11	Layer-by-Layer Self-Assembly of Polyelectrolyte-Semiconductor Nanoparticle Composite Films. The Journal of Physical Chemistry, 1995, 99, 13065-13069.	2.9	770
12	One-Dimensional Assemblies of Nanoparticles: Preparation, Properties, and Promise. Advanced Materials, 2005, 17, 951-962.	11.1	749
13	Stretchable nanoparticle conductors with self-organized conductive pathways. Nature, 2013, 500, 59-63.	13.7	729
14	Targeted Gold Nanoparticles Enable Molecular CT Imaging of Cancer. Nano Letters, 2008, 8, 4593-4596.	4.5	710
15	Chiral Inorganic Nanostructures. Chemical Reviews, 2017, 117, 8041-8093.	23.0	656
16	Ultrasmall implantable composite microelectrodes with bioactive surfaces for chronic neural interfaces. Nature Materials, 2012, 11, 1065-1073.	13.3	601
17	Gold nanoparticle ensembles as heaters and actuators: melting and collective plasmon resonances. Nanoscale Research Letters, 2006, 1, 84-90.	3.1	582
18	Ultrathin graphite oxide-polyelectrolyte composites prepared by self-assembly: Transition between conductive and non-conductive states. Advanced Materials, 1996, 8, 637-641.	11.1	564

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19	Dispersions of Aramid Nanofibers: A New Nanoscale Building Block. ACS Nano, 2011, 5, 6945-6954.	7.3	553
20	Best Practices for Reporting Electrocatalytic Performance of Nanomaterials. ACS Nano, 2018, 12, 9635-9638.	7.3	537
21	Composite Layer-by-Layer (LBL) Assembly with Inorganic Nanoparticles and Nanowires. Accounts of Chemical Research, 2008, 41, 1831-1841.	7.6	528
22	A kirigami approach to engineering elasticity in nanocomposites through patterned defects. Nature Materials, 2015, 14, 785-789.	13.3	509
23	Antigen/Antibody Immunocomplex from CdTe Nanoparticle Bioconjugates. Nano Letters, 2002, 2, 817-822.	4.5	501
24	Smart Electronic Yarns and Wearable Fabrics for Human Biomonitoring made by Carbon Nanotube Coating with Polyelectrolytes. Nano Letters, 2008, 8, 4151-4157.	4.5	496
25	Self-assembly of self-limiting monodisperse supraparticles from polydisperse nanoparticles. Nature Nanotechnology, 2011, 6, 580-587.	15.6	488
26	Exciton-Plasmon Interaction and Hybrid Excitons in Semiconductor-Metal Nanoparticle Assemblies. Nano Letters, 2006, 6, 984-994.	4.5	482
27	Nanomaterials for Neural Interfaces. Advanced Materials, 2009, 21, 3970-4004.	11.1	460
28	Attomolar DNA detection with chiral nanorod assemblies. Nature Communications, 2013, 4, 2689.	5.8	443
29	Functional Graphene Nanomaterials Based Architectures: Biointeractions, Fabrications, and Emerging Biological Applications. Chemical Reviews, 2017, 117, 1826-1914.	23.0	425
30	Albumin-CdTe Nanoparticle Bioconjugates: Preparation, Structure, and Interunit Energy Transfer with Antenna Effect. Nano Letters, 2001, 1, 281-286.	4.5	412
31	Gold nanorods 3D-supercrystals as surface enhanced Raman scattering spectroscopy substrates for the rapid detection of scrambled prions. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 8157-8161.	3.3	412
32	Core-Shell Type Composite Spheres of Silica and Semiconductor Nanocrystals. Chemistry of Materials, 2000, 12, 2676-2685.	3.2	406
33	Layer-by-Layer Assembled Mixed Spherical and Planar Gold Nanoparticles: Control of Interparticle Interactions. Langmuir, 2002, 18, 3694-3697.	1.6	404
34	Nonadditivity of nanoparticle interactions. Science, 2015, 350, 1242477.	6.0	403
35	Dual-Mode Ultrasensitive Quantification of MicroRNA in Living Cells by Chiroplasmonic Nanopyramids Self-Assembled from Gold and Upconversion Nanoparticles. Journal of the American Chemical Society, 2016, 138, 306-312.	6.6	399
36	Self-Assembly of Chiral Nanoparticle Pyramids with Strong Optical Activity. Journal of the American Chemical Society, 2012, 134, 15114-15121.	6.6	366

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37	Bioconjugates of CdTe Nanowires and Au Nanoparticles: Plasmon-Exciton Interactions, Luminescence Enhancement, and Collective Effects. <i>Nano Letters</i> , 2004, 4, 2323-2330.	4.5	364
38	High Sensitivity of In Vivo Detection of Gold Nanorods Using a Laser Optoacoustic Imaging System. <i>Nano Letters</i> , 2007, 7, 1914-1918.	4.5	359
39	Multiscale Control of Nanocellulose Assembly: Transferring Remarkable Nanoscale Fibril Mechanics to Macroscale Fibers. <i>ACS Nano</i> , 2018, 12, 6378-6388.	7.3	359
40	Targeted gold nanorod contrast agent for prostate cancer detection by photoacoustic imaging. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	357
41	Aqueous Dispersions of Single-wall and Multiwall Carbon Nanotubes with Designed Amphiphilic Polycations. <i>Journal of the American Chemical Society</i> , 2005, 127, 3463-3472.	6.6	353
42	Light-Controlled Self-Assembly of Semiconductor Nanoparticles into Twisted Ribbons. <i>Science</i> , 2010, 327, 1355-1359.	6.0	341
43	Chiral templating of self-assembling nanostructures by circularly polarized light. <i>Nature Materials</i> , 2015, 14, 66-72.	13.3	330
44	One-Pot Synthesis of Ag@TiO <sub>2</sub> Core-Shell Nanoparticles and Their Layer-by-Layer Assembly. <i>Langmuir</i> , 2000, 16, 2731-2735.	1.6	323
45	Inorganic Nanoparticles as Protein Mimics. <i>Science</i> , 2010, 330, 188-189.	6.0	316
46	Exciton-plasmon interactions in molecular spring assemblies of nanowires and wavelength-based protein detection. <i>Nature Materials</i> , 2007, 6, 291-295.	13.3	315
47	Successful Differentiation of Mouse Neural Stem Cells on Layer-by-Layer Assembled Single-Walled Carbon Nanotube Composite. <i>Nano Letters</i> , 2007, 7, 1123-1128.	4.5	310
48	Chiral Graphene Quantum Dots. <i>ACS Nano</i> , 2016, 10, 1744-1755.	7.3	304
49	In vitro Toxicity Testing of Nanoparticles in 3D Cell Culture. <i>Small</i> , 2009, 5, 1213-1221.	5.2	300
50	Free-Standing Layer-by-Layer Assembled Films of Magnetite Nanoparticles. <i>Langmuir</i> , 2000, 16, 5530-5533.	1.6	297
51	Nanorainbows: Graded Semiconductor Films from Quantum Dots. <i>Journal of the American Chemical Society</i> , 2001, 123, 7738-7739.	6.6	290
52	Bioconjugated gold nanoparticles as a molecular based contrast agent: implications for imaging of deep tumors using optoacoustic tomography. <i>Molecular Imaging and Biology</i> , 2004, 6, 341-349.	1.3	279
53	Two Modes of Linear Layer-by-Layer Growth of Nanoparticle-Polyelectrolyte Multilayers and Different Interactions in the Layer-by-layer Deposition. <i>Journal of the American Chemical Society</i> , 2001, 123, 1101-1110.	6.6	274
54	Unexpected Chirality of Nanoparticle Dimers and Ultrasensitive Chiroplasmonic Bioanalysis. <i>Journal of the American Chemical Society</i> , 2013, 135, 18629-18636.	6.6	274

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55	A dendrite-suppressing composite ion conductor from aramid nanofibres. <i>Nature Communications</i> , 2015, 6, 6152.	5.8	272
56	Layer-by-layer self-assembly: The contribution of hydrophobic interactions. <i>Scripta Materialia</i> , 1999, 12, 789-796.	0.5	265
57	Mechanism of Strong Luminescence Photoactivation of Citrate-Stabilized Water-Soluble Nanoparticles with CdSe Cores. <i>Journal of Physical Chemistry B</i> , 2004, 108, 15461-15469.	1.2	263
58	Multifunctional layer-by-layer carbon nanotube/polyelectrolyte thin films for strain and corrosion sensing. <i>Smart Materials and Structures</i> , 2007, 16, 429-438.	1.8	259
59	Regiospecific Plasmonic Assemblies for <i>In Situ</i> Raman Spectroscopy in Live Cells. <i>Journal of the American Chemical Society</i> , 2012, 134, 1699-1709.	6.6	259
60	Layer-by-Layer Assembled Composites from Multiwall Carbon Nanotubes with Different Morphologies. <i>Nano Letters</i> , 2004, 4, 1889-1895.	4.5	255
61	Mechanism of and Defect Formation in the Self-Assembly of Polymeric Polycation/Montmorillonite Ultrathin Films. <i>Journal of the American Chemical Society</i> , 1997, 119, 6821-6832.	6.6	251
62	Self-assembly: From nanoscale to microscale colloids. <i>AIChE Journal</i> , 2004, 50, 2978-2985.	1.8	250
63	Molecularly Engineered Nanocomposites: A Layer-by-Layer Assembly of Cellulose Nanocrystals. <i>Biomacromolecules</i> , 2005, 6, 2914-2918.	2.6	249
64	Simple, Rapid, Sensitive, and Versatile SWNT/Paper Sensor for Environmental Toxin Detection Competitive with ELISA. <i>Nano Letters</i> , 2009, 9, 4147-4152.	4.5	249
65	Inhibition of Amyloid Peptide Fibrillation by Inorganic Nanoparticles: Functional Similarities with Proteins. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5110-5115.	7.2	248
66	Carbon sheet solutions. <i>Nature</i> , 2006, 442, 254-255.	13.7	243
67	Similar Topological Origin of Chiral Centers in Organic and Nanoscale Inorganic Structures: Effect of Stabilizer Chirality on Optical Isomerism and Growth of CdTe Nanocrystals. <i>Journal of the American Chemical Society</i> , 2010, 132, 6006-6013.	6.6	243
68	Enantiomer-dependent immunological response to chiral nanoparticles. <i>Nature</i> , 2022, 601, 366-373.	13.7	243
69	Layer-by-Layer Assembly of Nacre-like Nanostructured Composites with Antimicrobial Properties. <i>Langmuir</i> , 2005, 21, 11915-11921.	1.6	239
70	Side-by-Side and End-to-End Gold Nanorod Assemblies for Environmental Toxin Sensing. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 5472-5475.	7.2	239
71	Theory of plasmon-enhanced Förster energy transfer in optically excited semiconductor and metal nanoparticles. <i>Physical Review B</i> , 2007, 76, .	1.1	238
72	Electrophoretic Deposition of Latex-Based 3D Colloidal Photonic Crystals: A Technique for Rapid Production of High-Quality Opals. <i>Chemistry of Materials</i> , 2000, 12, 2721-2726.	3.2	233

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73	Coupled Composite CdS/CdSe and Core-Shell Types of (CdS)/CdSe and (CdSe)/CdS Nanoparticles. The Journal of Physical Chemistry, 1996, 100, 8927-8939.	2.9	231
74	Nanoparticle Superstructures Made by Polymerase Chain Reaction: Collective Interactions of Nanoparticles and a New Principle for Chiral Materials. Nano Letters, 2009, 9, 2153-2159.	4.5	228
75	Reconfigurable chiroptical nanocomposites with chirality transfer from the macro- to the nanoscale. Nature Materials, 2016, 15, 461-468.	13.3	220
76	CNT/CdTe Versatile Donor-Acceptor Nanohybrids. Journal of the American Chemical Society, 2006, 128, 2315-2323.	6.6	219
77	Nanoparticle assemblies: dimensional transformation of nanomaterials and scalability. Chemical Society Reviews, 2013, 42, 3114.	18.7	216
78	Carbon Nanotube Sensing Skins for Spatial Strain and Impact Damage Identification. Journal of Nondestructive Evaluation, 2009, 28, 9-25.	1.1	213
79	The State of Nanoparticle-Based Nanoscience and Biotechnology: Progress, Promises, and Challenges. ACS Nano, 2012, 6, 8468-8483.	7.3	211
80	The Future of Layer-by-Layer Assembly: A Tribute to ACS Nano Associate Editor Helmuth Mhwald. ACS Nano, 2019, 13, 6151-6169.	7.3	211
81	Exponential Growth of LBL Films with Incorporated Inorganic Sheets. Nano Letters, 2008, 8, 1762-1770.	4.5	210
82	Dynamic Nanoparticle Assemblies. Accounts of Chemical Research, 2012, 45, 1916-1926.	7.6	209
83	Fusion of Seashell Nacre and Marine Bioadhesive Analogs: High-Strength Nanocomposite by Layer-by-Layer Assembly of Clay and L-3,4-Dihydroxyphenylalanine Polymer. Advanced Materials, 2007, 19, 949-955.	11.1	204
84	Chiro-magnetic nanoparticles and gels. Science, 2018, 359, 309-314.	6.0	201
85	Unexpected insights into antibacterial activity of zinc oxide nanoparticles against methicillin resistant Staphylococcus aureus (MRSA). Nanoscale, 2018, 10, 4927-4939.	2.8	200
86	Layer-By-Layer Assembly of Core-Shell Magnetite Nanoparticles: Effect of Silica Coating on Interparticle Interactions and Magnetic Properties. Advanced Materials, 1999, 11, 1006-1010.	11.1	197
87	Multicolor Luminescence Patterning by Photoactivation of Semiconductor Nanoparticle Films. Journal of the American Chemical Society, 2003, 125, 2830-2831.	6.6	195
88	Electrical Stimulation of Neural Stem Cells Mediated by Humanized Carbon Nanotube Composite Made with Extracellular Matrix Protein. Nano Letters, 2009, 9, 273-278.	4.5	194
89	Shape-Dependent Biomimetic Inhibition of Enzyme by Nanoparticles and Their Antibacterial Activity. ACS Nano, 2015, 9, 9097-9105.	7.3	192
90	Gold Nanoparticles Enhance the Anti-Leukemia Action of a 6-Mercaptopurine Chemotherapeutic Agent. Langmuir, 2008, 24, 568-574.	1.6	190

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91	Site-selective photoinduced cleavage and profiling of DNA by chiral semiconductor nanoparticles. <i>Nature Chemistry</i> , 2018, 10, 821-830.	6.6	189
92	Nanoparticle Assemblies with Molecular Springs: A Nanoscale Thermometer. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 7439-7442.	7.2	188
93	Crystal field, phonon coupling and emission shift of Mn <sup>2+</sup> in ZnS:Mn nanoparticles. <i>Journal of Applied Physics</i> , 2001, 89, 1120-1129.	1.1	185
94	Chiral plasmonics of self-assembled nanorod dimers. <i>Scientific Reports</i> , 2013, 3, 1934.	1.6	185
95	Silver Nanowire Embedded in P3HT:PCBM for High-Efficiency Hybrid Photovoltaic Device Applications. <i>ACS Nano</i> , 2011, 5, 3319-3325.	7.3	184
96	Abiotic tooth enamel. <i>Nature</i> , 2017, 543, 95-98.	13.7	184
97	Thermometer design at the nanoscale. <i>Nano Today</i> , 2007, 2, 48-51.	6.2	179
98	Emergence of complexity in hierarchically organized chiral particles. <i>Science</i> , 2020, 368, 642-648.	6.0	179
99	Bio-inspired Nanocomposite Membranes for Osmotic Energy Harvesting. <i>Joule</i> , 2020, 4, 247-261.	11.7	177
100	Nanoparticle assembly for 1D and 2D ordered structures. <i>Soft Matter</i> , 2009, 5, 1146.	1.2	175
101	Control of Packing Order of Self-Assembled Monolayers of Magnetite Nanoparticles with and without SiO <sub>2</sub> Coating by Microwave Irradiation. <i>Langmuir</i> , 1998, 14, 6430-6435.	1.6	172
102	Origami and Kirigami Nanocomposites. <i>ACS Nano</i> , 2017, 11, 7587-7599.	7.3	172
103	Stratified Assemblies of Magnetite Nanoparticles and Montmorillonite Prepared by the Layer-by-Layer Assembly. <i>Langmuir</i> , 2000, 16, 3941-3949.	1.6	170
104	Shell-Engineered Chiroplasmonic Assemblies of Nanoparticles for Zeptomolar DNA Detection. <i>Nano Letters</i> , 2014, 14, 3908-3913.	4.5	169
105	Enhanced optical asymmetry in supramolecular chiroplasmonic assemblies with long-range order. <i>Science</i> , 2021, 371, 1368-1374.	6.0	168
106	Chronic <i>in vivo</i> stability assessment of carbon fiber microelectrode arrays. <i>Journal of Neural Engineering</i> , 2016, 13, 066002.	1.8	166
107	Layer-by-Layer Assembled Films of Cellulose Nanowires with Antireflective Properties. <i>Langmuir</i> , 2007, 23, 7901-7906.	1.6	165
108	High-Content Screening as a Universal Tool for Fingerprinting of Cytotoxicity of Nanoparticles. <i>ACS Nano</i> , 2008, 2, 928-938.	7.3	165

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109	Single-Walled Carbon Nanotube Polyelectrolyte Multilayers and Freestanding Films as a Biocompatible Platform for Neuroprosthetic Implants. <i>Advanced Materials</i> , 2005, 17, 2663-2670.	11.1	160
110	Bioconjugated Superstructures of CdTe Nanowires and Nanoparticles: A Multistep Cascade Förster Resonance Energy Transfer and Energy Channeling. <i>Nano Letters</i> , 2005, 5, 2063-2069.	4.5	157
111	Collagen Coating Promotes Biocompatibility of Semiconductor Nanoparticles in Stratified LBL Films. <i>Nano Letters</i> , 2003, 3, 1177-1182.	4.5	156
112	Reactive Aramid Nanostructures as High-Performance Polymeric Building Blocks for Advanced Composites. <i>Advanced Functional Materials</i> , 2013, 23, 2072-2080.	7.8	156
113	Tailoring Piezoresistive Sensitivity of Multilayer Carbon Nanotube Composite Strain Sensors. <i>Journal of Intelligent Material Systems and Structures</i> , 2008, 19, 747-764.	1.4	155
114	Integration of Conductivity, Transparency, and Mechanical Strength into Highly Homogeneous Layer-by-Layer Composites of Single-Walled Carbon Nanotubes for Optoelectronics. <i>Chemistry of Materials</i> , 2007, 19, 5467-5474.	3.2	154
115	Biomaterials by Design: Layer-By-Layer Assembled Ion-Selective and Biocompatible Films of TiO <sub>2</sub> Nanoshells for Neurochemical Monitoring. <i>Advanced Functional Materials</i> , 2002, 12, 255.	7.8	151
116	SERS-Active Gold Lace Nanoshells with Built-in Hotspots. <i>Nano Letters</i> , 2010, 10, 4013-4019.	4.5	151
117	Chiral 2D Organic Inorganic Hybrid Perovskite with Circular Dichroism Tunable Over Wide Wavelength Range. <i>Journal of the American Chemical Society</i> , 2020, 142, 4206-4212.	6.6	151
118	Water-Rich Biomimetic Composites with Abiotic Self-Organizing Nanofiber Network. <i>Advanced Materials</i> , 2018, 30, 1703343.	11.1	149
119	Counterintuitive Effect of Molecular Strength and Role of Molecular Rigidity on Mechanical Properties of Layer-by-Layer Assembled Nanocomposites. <i>Nano Letters</i> , 2007, 7, 1224-1231.	4.5	147
120	Simulations and Analysis of Self-Assembly of CdTe Nanoparticles into Wires and Sheets. <i>Nano Letters</i> , 2007, 7, 1670-1675.	4.5	147
121	Layer-by-Layer Assembled Films of HgTe Nanocrystals with Strong Infrared Emission. <i>Chemistry of Materials</i> , 2000, 12, 1526-1528.	3.2	146
122	Stimulation of Neural Cells by Lateral Currents in Conductive Layer-by-Layer Films of Single-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2006, 18, 2975-2979.	11.1	145
123	Nanoscale Engineering of a Cellular Interface with Semiconductor Nanoparticle Films for Photoelectric Stimulation of Neurons. <i>Nano Letters</i> , 2007, 7, 513-519.	4.5	145
124	Simple Preparation Strategy and One-Dimensional Energy Transfer in CdTe Nanoparticle Chains. <i>Journal of Physical Chemistry B</i> , 2004, 108, 6927-6931.	1.2	143
125	Insertion of linear 8.4 $\mu$ m diameter 16 channel carbon fiber electrode arrays for single unit recordings. <i>Journal of Neural Engineering</i> , 2015, 12, 046009.	1.8	142
126	Inverted Colloidal Crystals as Three-Dimensional Cell Scaffolds. <i>Langmuir</i> , 2004, 20, 7887-7892.	1.6	141



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127	Photoacoustic imaging of early inflammatory response using gold nanorods. <i>Applied Physics Letters</i> , 2007, 90, 223901.	1.5	141
128	Multiparameter Structural Optimization of Single-Walled Carbon Nanotube Composites: Toward Record Strength, Stiffness, and Toughness. <i>ACS Nano</i> , 2009, 3, 1711-1722.	7.3	141
129	Branched Aramid Nanofibers. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11744-11748.	7.2	140
130	Multiscale engineered artificial tooth enamel. <i>Science</i> , 2022, 375, 551-556.	6.0	138
131	Spontaneous Transformation of Stabilizer-Depleted Binary Semiconductor Nanoparticles into Selenium and Tellurium Nanowires. <i>Advanced Materials</i> , 2005, 17, 358-363.	11.1	137
132	Pseudonegative Thermal Expansion and the State of Water in Graphene Oxide Layered Assemblies. <i>ACS Nano</i> , 2012, 6, 8357-8365.	7.3	136
133	Transparent Conductors from Layer-by-Layer Assembled SWNT Films: Importance of Mechanical Properties and a New Figure of Merit. <i>ACS Nano</i> , 2010, 4, 3725-3734.	7.3	135
134	Assembly of mesoscale helices with near-unity enantiomeric excess and light-matter interactions for chiral semiconductors. <i>Science Advances</i> , 2017, 3, e1601159.	4.7	135
135	Propeller-Like Nanorod-Upconversion Nanoparticle Assemblies with Intense Chiroptical Activity and Luminescence Enhancement in Aqueous Phase. <i>Advanced Materials</i> , 2016, 28, 5907-5915.	11.1	132
136	Terahertz circular dichroism spectroscopy of biomaterials enabled by kirigami polarization modulators. <i>Nature Materials</i> , 2019, 18, 820-826.	13.3	132
137	Engineering liver tissue spheroids with inverted colloidal crystal scaffolds. <i>Biomaterials</i> , 2009, 30, 4687-4694.	5.7	130
138	Ultrasound stimulated release and catalysis using polyelectrolyte multilayer capsules. <i>Journal of Materials Chemistry</i> , 2007, 17, 1050-1054.	6.7	129
139	Ultrasound-Triggered Release from Multilayered Capsules. <i>Small</i> , 2007, 3, 804-808.	5.2	129
140	Crown ether assembly of gold nanoparticles: Melamine sensor. <i>Biosensors and Bioelectronics</i> , 2011, 26, 2032-2037.	5.3	128
141	In vitro analog of human bone marrow from 3D scaffolds with biomimetic inverted colloidal crystal geometry. <i>Biomaterials</i> , 2009, 30, 1071-1079.	5.7	127
142	Chiral Plasmonic Nanostructures on Achiral Nanopillars. <i>Nano Letters</i> , 2013, 13, 5277-5283.	4.5	125
143	Nanoparticle-based environmental sensors. <i>Materials Science and Engineering Reports</i> , 2010, 70, 265-274.	14.8	123
144	Graphene-based multilayers: Critical evaluation of materials assembly techniques. <i>Nano Today</i> , 2012, 7, 430-447.	6.2	123

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145	Thermodynamic and Structural Insights into Nanocomposites Engineering by Comparing Two Materials Assembly Techniques for Graphene. <i>ACS Nano</i> , 2013, 7, 4818-4829.	7.3	122
146	Nanostructured Thin Films Made by Dewetting Method of Layer-By-Layer Assembly. <i>Nano Letters</i> , 2007, 7, 3266-3273.	4.5	118
147	Inverted-Colloidal-Crystal Hydrogel Matrices as Three-Dimensional Cell Scaffolds. <i>Advanced Functional Materials</i> , 2005, 15, 725-731.	7.8	117
148	Loading of Exponentially Grown LBL Films with Silver Nanoparticles and Their Application to Generalized SERS Detection. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5326-5329.	7.2	117
149	Layered Carbon Nanotube-Polyelectrolyte Electrodes Outperform Traditional Neural Interface Materials. <i>Nano Letters</i> , 2009, 9, 4012-4018.	4.5	116
150	Anomalous dispersions of hedgehog particles. <i>Nature</i> , 2015, 517, 596-599.	13.7	116
151	Environmentally responsive plasmonic nanoassemblies for biosensing. <i>Chemical Society Reviews</i> , 2018, 47, 4677-4696.	18.7	116
152	High Strength Conductive Composites with Plasmonic Nanoparticles Aligned on Aramid Nanofibers. <i>Advanced Functional Materials</i> , 2016, 26, 8435-8445.	7.8	115
153	Sequentially bridged graphene sheets with high strength, toughness, and electrical conductivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5359-5364.	3.3	114
154	Mirror-Like Photoconductive Layer-by-Layer Thin Films of Te Nanowires: The Fusion of Semiconductor, Metal, and Insulator Properties. <i>Advanced Materials</i> , 2006, 18, 518-522.	11.1	113
155	Bioconjugated Ag Nanoparticles and CdTe Nanowires: Metamaterials with Field-Enhanced Light Absorption. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4819-4823.	7.2	112
156	Universal Synthesis of Single-Phase Pyrite FeS <sub>2</sub> Nanoparticles, Nanowires, and Nanosheets. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2567-2573.	1.5	112
157	High-Performance Nanostructured Membrane Electrode Assemblies for Fuel Cells Made by Layer-by-Layer Assembly of Carbon Nanocolloids. <i>Advanced Materials</i> , 2007, 19, 3859-3864.	11.1	111
158	Controllable Side-by-Side and End-to-End Assembly of Au Nanorods by Lyotropic Chromonic Materials. <i>Langmuir</i> , 2008, 24, 13833-13837.	1.6	111
159	Chiral Ceramic Nanoparticles and Peptide Catalysis. <i>Journal of the American Chemical Society</i> , 2017, 139, 13701-13712.	6.6	110
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161	Photoacoustic tomography of joints aided by an Etanercept-conjugated gold nanoparticle contrast agent: an <i>ex vivo</i> preliminary rat study. <i>Nanotechnology</i> , 2008, 19, 095101.	1.3	109
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