

Nicholas A Kotov

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

458 papers	51,949 citations	122 h-index	217 g-index
537 ext. papers	57,388 ext. citations	13.2 avg, IF	7.78 L-index

#	Paper	IF	Citations
458	Multifactorial engineering of biomimetic membranes for batteries with multiple high-performance parameters.. <i>Nature Communications</i> , 2022 , 13, 278	17.4	4
457	Circular Polarized Light Emission in Chiral Inorganic Nanomaterials.. <i>Advanced Materials</i> , 2022 , e2108431	24	13
456	Third-harmonic Mie scattering from semiconductor nanohelices. <i>Nature Photonics</i> , 2022 , 16, 126-133	33.9	3
455	Enantiomer-dependent immunological response to chiral nanoparticles.. <i>Nature</i> , 2022 , 601, 366-373	50.4	36
454	Layered Biomimetic Composites from MXenes with Sequential Bridging.. <i>Angewandte Chemie - International Edition</i> , 2022 , e202114140	16.4	0
453	Multiscale engineered artificial tooth enamel.. <i>Science</i> , 2022 , 375, 551-556	33.3	19
452	Excitation-dependent emissive FeSe nanoparticles induced by chiral interlayer expansion and their multi-color bio-imaging. <i>Nano Today</i> , 2022 , 43, 101424	17.9	1
451	Template-assisted self-assembly of achiral plasmonic nanoparticles into chiral structures.. <i>Chemical Science</i> , 2022 , 13, 595-610	9.4	11
450	A Multiphysics Modeling of Electromagnetic Signaling Phenomena at kHz-GHz Frequencies in Bacterial Biofilms. <i>IEEE Access</i> , 2022 , 1-1	3.5	2
449	Electrostatic Asymmetry of Wurtzite Nanocrystals and Resulting Photocatalytic Properties. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 4751-4761	3.8	
448	Polarization-sensitive optoionic membranes from chiral plasmonic nanoparticles.. <i>Nature Nanotechnology</i> , 2022 ,	28.7	10
447	Spanning Network Gels from Nanoparticles and Graph Theoretical Analysis of their Structure and Properties.. <i>Advanced Materials</i> , 2022 , e2201313	24	2
446	Experimental Evidence of Radio Frequency Radiation From Staphylococcus aureus Biofilms. <i>IEEE Journal of Electromagnetics, RF and Microwaves in Medicine and Biology</i> , 2022 , 1-9	2.8	1
445	Tribute to Marie-Paule Pileni. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 7357-7358	3.8	
444	Unifying structural descriptors for biological and bioinspired nanoscale complexes. <i>Nature Computational Science</i> , 2022 , 2, 243-252		1
443	Self-Assembly Mechanism of Complex Corrugated Particles. <i>Journal of the American Chemical Society</i> , 2021 , 143, 19655-19667	16.4	4
442	Optical processes in carbon nanocolloids. <i>CheM</i> , 2021 , 7, 606-628	16.2	27

441	X-ray-Based Techniques to Study the Nano-Bio Interface. <i>ACS Nano</i> , 2021 , 15, 3754-3807	16.7	18
440	Enhanced optical asymmetry in supramolecular chiroplasmonic assemblies with long-range order. <i>Science</i> , 2021 , 371, 1368-1374	33.3	66
439	Broadband Circular Polarizers via Coupling in 3D Plasmonic Meta-Atom Arrays. <i>ACS Photonics</i> , 2021 , 8, 1286-1292	6.3	4
438	Graph theoretical design of biomimetic aramid nanofiber composites as insulation coatings for implantable bioelectronics. <i>MRS Bulletin</i> , 2021 , 46, 576-587	3.2	4
437	Metal-Bridged Graphene-Protein Supraparticles for Analog and Digital Nitric Oxide Sensing. <i>Advanced Materials</i> , 2021 , 33, e2007900	24	3
436	Structural Analysis of Nanoscale Network Materials Using Graph Theory. <i>ACS Nano</i> , 2021 ,	16.7	6
435	Reconfigurable Chirality of DNA-Bridged Nanorod Dimers. <i>ACS Nano</i> , 2021 ,	16.7	2
434	Real-Time 3D Analysis During Tomographic Experiments on tomviz. <i>Microscopy and Microanalysis</i> , 2021 , 27, 2860-2862	0.5	0
433	Stimulation of neural stem cell differentiation by circularly polarized light transduced by chiral nanoassemblies. <i>Nature Biomedical Engineering</i> , 2021 , 5, 103-113	19	36
432	Fiber-reinforced monolithic supercapacitors with interdigitated interfaces. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11033-11041	13	1
431	Photocatalytic Hedgehog Particles for High Ionic Strength Environments. <i>ACS Nano</i> , 2021 , 15, 4226-4234	16.7	4
430	Biomimetic nanoporous aerogels from branched aramid nanofibers combining high heat insulation and compressive strength. <i>SmartMat</i> , 2021 , 2, 76-87	22.8	9
429	Single-Molecule Binding Assay Using Nanopores and Dimeric NP Conjugates. <i>Advanced Materials</i> , 2021 , 33, e2103067	24	8
428	Frustrated self-assembly of non-Euclidean crystals of nanoparticles. <i>Nature Communications</i> , 2021 , 12, 4925	17.4	5
427	Broad Chiroptical Activity from Ultraviolet to Short-Wave Infrared by Chirality Transfer from Molecular to Micrometer Scale. <i>ACS Nano</i> , 2021 , 15, 15229-15237	16.7	1
426	Self-Assembly of Asymmetrically Functionalized Titania Nanoparticles into Nanoshells. <i>Materials</i> , 2020 , 13,	3.5	3
425	Enantiomeric Discrimination by Surface-Enhanced Raman Scattering-Chiral Anisotropy of Chiral Nanostructured Gold Films. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15226-15231	16.4	28
424	Chiral Nanoceramics. <i>Advanced Materials</i> , 2020 , 32, e1906738	24	24

423	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	16.4	74
422	Emergence of complexity in hierarchically organized chiral particles. <i>Science</i> , 2020 , 368, 642-648	33.3	85
421	Chiomagnetic Properties of Semiconductor Nanorods. <i>Matter</i> , 2020 , 2, 1089-1090	12.7	2
420	Penetration of Carbon Nanotubes into the Retinoblastoma Tumor after Intravitreal Injection in LH T Transgenic Mice Reti-noblastoma Model. <i>Journal of Ophthalmic and Vision Research</i> , 2020 , 15, 446-452 ^{1.2}	1.2	0
419	Penetration of Carbon Nanotubes into the Retinoblastoma Tumor after Intravitreal Injection in LHBETATAG Transgenic Mice Reti-noblastoma Model. <i>Journal of Ophthalmic and Vision Research</i> , 2020 , 15, 446-452	1.2	0
418	Inorganic Nanostructures with Strong Chiroptical Activity. <i>CCS Chemistry</i> , 2020 , 2, 583-604	7.2	24
417	Mie Resonance Engineering in Meta-Shell Supraparticles for Nanoscale Nonlinear Optics. <i>ACS Nano</i> , 2020 ,	16.7	10
416	Diverse Nanoassemblies of Graphene Quantum Dots and Their Mineralogical Counterparts. <i>Angewandte Chemie</i> , 2020 , 132, 8620-8629	3.6	2
415	Bio-inspired Nanocomposite Membranes for Osmotic Energy Harvesting. <i>Joule</i> , 2020 , 4, 247-261	27.8	78
414	Chemo- and Thermomechanically Configurable 3D Optical Metamaterials Constructed from Colloidal Nanocrystal Assemblies. <i>ACS Nano</i> , 2020 , 14, 1427-1435	16.7	10
413	Self-Assembly of Chiral Nanoparticles into Semiconductor Helices with Tunable near-Infrared Optical Activity. <i>Chemistry of Materials</i> , 2020 , 32, 476-488	9.6	39
412	Nanoceramics: Chiral Nanoceramics (Adv. Mater. 41/2020). <i>Advanced Materials</i> , 2020 , 32, 2070311	24	2
411	Early Growth Stages of Hierarchically Organized Chiral Structures. <i>Microscopy and Microanalysis</i> , 2020 , 26, 550-551	0.5	0
410	Omnidispersible Microscale Colloids with Nanoscale Polymeric Spikes. <i>Chemistry of Materials</i> , 2020 , 32, 9897-9905	9.6	3
409	Biomorphic structural batteries for robotics. <i>Science Robotics</i> , 2020 , 5,	18.6	34
408	Plasmonic Nanoparticles with Supramolecular Recognition. <i>Advanced Functional Materials</i> , 2020 , 30, 1902082	15.6	36
407	Diverse Nanoassemblies of Graphene Quantum Dots and Their Mineralogical Counterparts. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 8542-8551	16.4	16
406	Present and Future of Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2020 , 14, 28-117	16.7	1000

405	Plasmonic nanoparticles assemblies templated by helical bacteria and resulting optical activity. <i>Chirality</i> , 2020 , 32, 899-906	2.1	5
404	Enantiomeric Discrimination by Surface-Enhanced Raman Scattering of Chiral Anisotropy of Chiral Nanostructured Gold Films. <i>Angewandte Chemie</i> , 2020 , 132, 15338-15343	3.6	12
403	Origin of chiroptical activity in nanorod assemblies. <i>Science</i> , 2019 , 365, 1378-1379	33.3	6
402	The Future of Layer-by-Layer Assembly: A Tribute to ACS Nano Associate Editor Helmut M. W. Wald. <i>ACS Nano</i> , 2019 , 13, 6151-6169	16.7	127
401	Anti-Biofilm Activity of Graphene Quantum Dots via Self-Assembly with Bacterial Amyloid Proteins. <i>ACS Nano</i> , 2019 , 13, 4278-4289	16.7	39
400	Three-dimensional biomimetic scaffolds for hepatic differentiation of size-controlled embryoid bodies. <i>Journal of Materials Research</i> , 2019 , 34, 1371-1380	2.5	3
399	Spontaneous Formation of Cold-Welded Plasmonic Nanoassemblies with Refracted Shapes for Intense Raman Scattering. <i>Langmuir</i> , 2019 , 35, 4110-4116	4	3
398	Supraparticle Nanoassemblies with Enzymes. <i>Chemistry of Materials</i> , 2019 , 31, 7493-7500	9.6	13
397	Nonsolvent induced reconfigurable bonding configurations of ligands in nanoparticle purification. <i>Nanoscale Horizons</i> , 2019 , 4, 1416-1424	10.8	5
396	Assembly of Gold Nanoparticles into Chiral Superstructures Driven by Circularly Polarized Light. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11739-11744	16.4	46
395	Stretchable batteries with gradient multilayer conductors. <i>Science Advances</i> , 2019 , 5, eaaw1879	14.3	67
394	Terahertz circular dichroism spectroscopy of biomaterials enabled by kirigami polarization modulators. <i>Nature Materials</i> , 2019 , 18, 820-826	27	63
393	Single- and multi-component chiral supraparticles as modular enantioselective catalysts. <i>Nature Communications</i> , 2019 , 10, 4826	17.4	46
392	Quantitative zeptomolar imaging of miRNA cancer markers with nanoparticle assemblies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 3391-3400	11.5	52
391	Biomimetic Solid-State Zn Electrolyte for Corrugated Structural Batteries. <i>ACS Nano</i> , 2019 , 13, 1107-1115	16.7	48
390	Unexpected insights into antibacterial activity of zinc oxide nanoparticles against methicillin resistant <i>Staphylococcus aureus</i> (MRSA). <i>Nanoscale</i> , 2018 , 10, 4927-4939	7.7	129
389	Dipole-like electrostatic asymmetry of gold nanorods. <i>Science Advances</i> , 2018 , 4, e1700682	14.3	27
388	Chiomagnetic nanoparticles and gels. <i>Science</i> , 2018 , 359, 309-314	33.3	122

387	Biomimetic Nanocomposites: Water-Rich Biomimetic Composites with Abiotic Self-Organizing Nanofiber Network (Adv. Mater. 1/2018). <i>Advanced Materials</i> , 2018 , 30, 1870007	24	10
386	Unusual multiscale mechanics of biomimetic nanoparticle hydrogels. <i>Nature Communications</i> , 2018 , 9, 181	17.4	24
385	Scattering Properties of Individual Hedgehog Particles. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 120153-120210	3.1	5
384	Electrochemistry on Stretchable Nanocomposite Electrodes: Dependence on Strain. <i>ACS Nano</i> , 2018 , 12, 9223-9232	16.7	8
383	Gelation-Assisted Layer-by-Layer Deposition of High Performance Nanocomposites. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018 , 232, 1383-1398	3.1	5
382	Site-selective photoinduced cleavage and profiling of DNA by chiral semiconductor nanoparticles. <i>Nature Chemistry</i> , 2018 , 10, 821-830	17.6	120
381	Materials Engineering of High-Performance Anodes as Layered Composites with Self-Assembled Conductive Networks. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 14014-14028	3.8	7
380	Environmentally responsive plasmonic nanoassemblies for biosensing. <i>Chemical Society Reviews</i> , 2018 , 47, 4677-4696	58.5	78
379	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	11.5	77
378	Multiscale Control of Nanocellulose Assembly: Transferring Remarkable Nanoscale Fibril Mechanics to Macroscale Fibers. <i>ACS Nano</i> , 2018 , 12, 6378-6388	16.7	230
377	Antibacterial Metal Oxide Nanoparticles: Challenges in Interpreting the Literature. <i>Current Pharmaceutical Design</i> , 2018 , 24, 896-903	3.3	52
376	Water-Rich Biomimetic Composites with Abiotic Self-Organizing Nanofiber Network. <i>Advanced Materials</i> , 2018 , 30, 1703343	24	94
375	Layered biomimetic nanocomposites replicate bone surface in three-dimensional cell cultures. <i>Nanocomposites</i> , 2018 , 4, 156-166	3.4	1
374	Interpretable and Efficient Interferometric Contrast in Scanning Transmission Electron Microscopy with a Diffraction-Grating Beam Splitter. <i>Physical Review Applied</i> , 2018 , 10,	4.3	14
373	Nanoporous aramid nanofibre separators for nonaqueous redox flow batteries. <i>Nature Communications</i> , 2018 , 9, 4193	17.4	53
372	Plasmonic Biomimetic Nanocomposite with Spontaneous Subwavelength Structuring as Broadband Absorbers. <i>ACS Energy Letters</i> , 2018 , 3, 1578-1583	20.1	20
371	Omnidispersible Hedgehog Particles with Multilayer Coatings for Multiplexed Biosensing. <i>Journal of the American Chemical Society</i> , 2018 , 140, 7835-7845	16.4	23
370	A Helicene Nanoribbon with Greatly Amplified Chirality. <i>Journal of the American Chemical Society</i> , 2018 , 140, 6235-6239	16.4	73

369	Functional Graphene Nanomaterials Based Architectures: Biointeractions, Fabrications, and Emerging Biological Applications. <i>Chemical Reviews</i> , 2017 , 117, 1826-1914	68.1	333
368	Abiotic tooth enamel. <i>Nature</i> , 2017 , 543, 95-98	50.4	127
367	Assembly of mesoscale helices with near-unity enantiomeric excess and light-matter interactions for chiral semiconductors. <i>Science Advances</i> , 2017 , 3, e1601159	14.3	96
366	Nanoscience and Nanotechnology Cross Borders. <i>ACS Nano</i> , 2017 , 11, 1123-1126	16.7	3
365	Chiral Inorganic Nanostructures. <i>Chemical Reviews</i> , 2017 , 117, 8041-8093	68.1	435
364	Optical Asymmetry and Nonlinear Light Scattering from Colloidal Gold Nanorods. <i>ACS Nano</i> , 2017 , 11, 5925-5932	16.7	17
363	Diverse Applications of Nanomedicine. <i>ACS Nano</i> , 2017 , 11, 2313-2381	16.7	714
362	The art of empty space. <i>Science</i> , 2017 , 358, 448	33.3	2
361	Template-Free Hierarchical Self-Assembly of Iron Diselenide Nanoparticles into Mesoscale Hedgehogs. <i>Journal of the American Chemical Society</i> , 2017 , 139, 16630-16639	16.4	33
360	Stretchable conductors by kirigami patterning of aramid-silver nanocomposites with zero conductance gradient. <i>Applied Physics Letters</i> , 2017 , 111, 161901	3.4	32
359	Branched Aramid Nanofibers. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 11744-11748	16.4	90
358	Branched Aramid Nanofibers. <i>Angewandte Chemie</i> , 2017 , 129, 11906-11910	3.6	13
357	Origami and Kirigami Nanocomposites. <i>ACS Nano</i> , 2017 , 11, 7587-7599	16.7	139
356	Authentic synthetic nacre. <i>National Science Review</i> , 2017 , 4, 284-285	10.8	2
355	Chiral Ceramic Nanoparticles and Peptide Catalysis. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13701-13712	16.4	67
354	Intracellular localization of nanoparticle dimers by chirality reversal. <i>Nature Communications</i> , 2017 , 8, 1847	17.4	76
353	Self-assembly of nanoparticles into biomimetic capsid-like nanoshells. <i>Nature Chemistry</i> , 2017 , 9, 287-294	7.6	71
352	Self-assembly of inorganic nanoparticles: Ab ovo. <i>Europhysics Letters</i> , 2017 , 119, 66008	1.6	17

351	Nanoparticle Assembly: A Perspective and some Unanswered Questions. <i>Current Science</i> , 2017 , 112, 1635-2	10
350	Nanoparticle Assemblies into Luminescent Dendrites in Shrinking Microdroplets. <i>Langmuir</i> , 2016 , 32, 12468-12475	4 2
349	High Strength Conductive Composites with Plasmonic Nanoparticles Aligned on Aramid Nanofibers. <i>Advanced Functional Materials</i> , 2016 , 26, 8435-8445	15.6 89
348	Multiscale deformations lead to high toughness and circularly polarized emission in helical nacre-like fibres. <i>Nature Communications</i> , 2016 , 7, 10701	17.4 80
347	Biomimetic Hierarchical Assembly of Helical Supraparticles from Chiral Nanoparticles. <i>ACS Nano</i> , 2016 , 10, 3248-56	16.7 86
346	Chiral Graphene Quantum Dots. <i>ACS Nano</i> , 2016 , 10, 1744-55	16.7 216
345	Reconfigurable chiroptical nanocomposites with chirality transfer from the macro- to the nanoscale. <i>Nature Materials</i> , 2016 , 15, 461-8	27 169
344	Dual-Mode Ultrasensitive Quantification of MicroRNA in Living Cells by Chiroplasmonic Nanopyramids Self-Assembled from Gold and Upconversion Nanoparticles. <i>Journal of the American Chemical Society</i> , 2016 , 138, 306-12	16.4 329
343	Zinc oxide nanoparticle suspensions and layer-by-layer coatings inhibit staphylococcal growth. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016 , 12, 33-42	6 35
342	Strong coupling of localized surface plasmons and ensembles of dye molecules. <i>Optics Express</i> , 2016 , 24, 25653-25664	3.3 9
341	Propeller-Like Nanorod-Upconversion Nanoparticle Assemblies with Intense Chiroptical Activity and Luminescence Enhancement in Aqueous Phase. <i>Advanced Materials</i> , 2016 , 28, 5907-15	24 107
340	Circular extinction of plasmonic silver nanocaps and gas sensing. <i>Faraday Discussions</i> , 2016 , 186, 345-52	3.6 1
339	Synthesis of Nanoparticle Assemblies: general discussion. <i>Faraday Discussions</i> , 2016 , 186, 123-52	3.6
338	Kirigami Nanocomposites as Wide-Angle Diffraction Gratings. <i>ACS Nano</i> , 2016 , 10, 6156-62	16.7 57
337	Chronic in vivo stability assessment of carbon fiber microelectrode arrays. <i>Journal of Neural Engineering</i> , 2016 , 13, 066002	5 121
336	Particle self-assembly: Superstructures simplified. <i>Nature Nanotechnology</i> , 2016 , 11, 1002-1003	28.7 11
335	Anisotropic nanoparticles: general discussion. <i>Faraday Discussions</i> , 2016 , 191, 229-254	3.6 5
334	Optical anisotropy and sign reversal in layer-by-layer assembled films from chiral nanoparticles. <i>Faraday Discussions</i> , 2016 , 191, 141-157	3.6 6

333	Field-assisted self-assembly process: general discussion. <i>Faraday Discussions</i> , 2015 , 181, 463-79	3.6	1
332	Aramid nanofiber-reinforced transparent nanocomposites. <i>Journal of Composite Materials</i> , 2015 , 49, 1873-1879	2.7	58
331	Anomalously Fast Diffusion of Targeted Carbon Nanotubes in Cellular Spheroids. <i>ACS Nano</i> , 2015 , 9, 8231-8	16.7	27
330	A kirigami approach to engineering elasticity in nanocomposites through patterned defects. <i>Nature Materials</i> , 2015 , 14, 785-9	27	389
329	Insertion of linear 8.4 μ m diameter 16 channel carbon fiber electrode arrays for single unit recordings. <i>Journal of Neural Engineering</i> , 2015 , 12, 046009	5	104
328	Pushing the Limits: 3D Layer-by-Layer-Assembled Composites for Cathodes with 160 C Discharge Rates. <i>ACS Nano</i> , 2015 , 9, 5009-17	16.7	34
327	Optimization of polymer solar cells performance by incorporated scattering of ZnO nanoparticles with different particle geometry. <i>Synthetic Metals</i> , 2015 , 205, 185-189	3.6	4
326	Circular Differential Scattering of Single Chiral Self-Assembled Gold Nanorod Dimers. <i>ACS Photonics</i> , 2015 , 2, 1602-1610	6.3	75
325	Nonadditivity of nanoparticle interactions. <i>Science</i> , 2015 , 350, 1242477	33.3	327
324	Shape-Dependent Biomimetic Inhibition of Enzyme by Nanoparticles and Their Antibacterial Activity. <i>ACS Nano</i> , 2015 , 9, 9097-105	16.7	139
323	Thermodynamic insights into the self-assembly of capped nanoparticles using molecular dynamic simulations. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 3820-31	3.6	12
322	Optical heating and temperature determination of core-shell gold nanoparticles and single-walled carbon nanotube microparticles. <i>Small</i> , 2015 , 11, 1320-7	11	29
321	Chiral templating of self-assembling nanostructures by circularly polarized light. <i>Nature Materials</i> , 2015 , 14, 66-72	27	251
320	Coordination Assembly of Discoid Nanoparticles. <i>Angewandte Chemie</i> , 2015 , 127, 9094-9098	3.6	3
319	Coordination Assembly of Discoid Nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8966-70	16.4	21
318	Generic, phenomenological, on-the-fly renormalized repulsion model for self-limited organization of terminal supraparticle assemblies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E3161-8	11.5	23
317	Low-current field-assisted assembly of copper nanoparticles for current collectors. <i>Faraday Discussions</i> , 2015 , 181, 383-401	3.6	14
316	Anomalous dispersions of 'hedgehog' particles. <i>Nature</i> , 2015 , 517, 596-9	50.4	87

315	A dendrite-suppressing composite ion conductor from aramid nanofibres. <i>Nature Communications</i> , 2015 , 6, 6152	17.4	225
314	Nanoparticle self-assembly: A loop of two rods. <i>Nature Materials</i> , 2014 , 13, 228-9	27	7
313	Phase-pure FeSe(x) (x = 1, 2) nanoparticles with one- and two-photon luminescence. <i>Journal of the American Chemical Society</i> , 2014 , 136, 7189-92	16.4	31
312	Terminal supraparticle assemblies from similarly charged protein molecules and nanoparticles. <i>Nature Communications</i> , 2014 , 5, 3593	17.4	81
311	Scalable nanopillar arrays with layer-by-layer patterned overt and covert images. <i>Advanced Materials</i> , 2014 , 26, 6119-24	24	34
310	Subcellular neural probes from single-crystal gold nanowires. <i>ACS Nano</i> , 2014 , 8, 8182-9	16.7	54
309	Self-organization of plasmonic and excitonic nanoparticles into resonant chiral supraparticle assemblies. <i>Nano Letters</i> , 2014 , 14, 6799-810	11.5	55
308	Simultaneously high stiffness and damping in nanoengineered microtruss composites. <i>ACS Nano</i> , 2014 , 8, 3468-75	16.7	35
307	Shell-engineered chiroplasmonic assemblies of nanoparticles for zeptomolar DNA detection. <i>Nano Letters</i> , 2014 , 14, 3908-13	11.5	145
306	Shape-morphing nanocomposite origami. <i>Langmuir</i> , 2014 , 30, 5378-85	4	33
305	Ultrastrong Materials, Nanostructured 2014 , 5011-5017		
304	Antibodies and Antigens: Luminescence of Nanoparticle-Labeled 2014 , 191-197		
303	Intracellular gold nanoparticles increase neuronal excitability and aggravate seizure activity in the mouse brain. <i>PLoS ONE</i> , 2014 , 9, e91360	3.7	42
302	Self-Assembly Mechanism of Spiky Magnetoplasmonic Supraparticles. <i>Advanced Functional Materials</i> , 2014 , 24, 1439-1448	15.6	62
301	Nanopatterning: Scalable Nanopillar Arrays with Layer-by-Layer Patterned Overt and Covert Images (Adv. Mater. 35/2014). <i>Advanced Materials</i> , 2014 , 26, 6200-6200	24	
300	Effect of TGA Concentration on Morphology of Cu ₂ S Nanoparticles. <i>Advanced Materials Research</i> , 2014 , 998-999, 47-50	0.5	1
299	Charge Transport Dilemma of Solution-Processed Nanomaterials. <i>Chemistry of Materials</i> , 2014 , 26, 134-158	15.8	90
298	Stretchable nanoparticle conductors with self-organized conductive pathways. <i>Nature</i> , 2013 , 500, 59-63	50.4	613

297	Self-assembly of copper sulfide nanoparticles into nanoribbons with continuous crystallinity. <i>ACS Nano</i> , 2013 , 7, 9010-8	16.7	52
296	Tissue-compliant neural implants from microfabricated carbon nanotube multilayer composite. <i>ACS Nano</i> , 2013 , 7, 7619-29	16.7	65
295	Attomolar DNA detection with chiral nanorod assemblies. <i>Nature Communications</i> , 2013 , 4, 2689	17.4	381
294	Unexpected chirality of nanoparticle dimers and ultrasensitive chiroplasmonic bioanalysis. <i>Journal of the American Chemical Society</i> , 2013 , 135, 18629-36	16.4	241
293	Chiral plasmonic nanostructures on achiral nanopillars. <i>Nano Letters</i> , 2013 , 13, 5277-83	11.5	107
292	Universal Synthesis of Single-Phase Pyrite FeS ₂ Nanoparticles, Nanowires, and Nanosheets. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 2567-2573	3.8	103
291	Resolution of oligomeric species during the aggregation of A β 1-40 using (19)F NMR. <i>Biochemistry</i> , 2013 , 52, 1903-12	3.2	85
290	Nanoparticle assemblies: dimensional transformation of nanomaterials and scalability. <i>Chemical Society Reviews</i> , 2013 , 42, 3114-26	58.5	188
289	Alternating Plasmonic Nanoparticle Heterochains Made by Polymerase Chain Reaction and Their Optical Properties. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 641-7	6.4	69
288	Nanoengineered colloidal probes for Raman-based detection of biomolecules inside living cells. <i>Small</i> , 2013 , 9, 351-6	11	47
287	Reactive Aramid Nanostructures as High-Performance Polymeric Building Blocks for Advanced Composites. <i>Advanced Functional Materials</i> , 2013 , 23, 2072-2080	15.6	124
286	Thermodynamic and structural insights into nanocomposites engineering by comparing two materials assembly techniques for graphene. <i>ACS Nano</i> , 2013 , 7, 4818-29	16.7	113
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