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

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

423	Chiral 2D Organic Inorganic Hybrid Perovskite with Circular Dichroism Tunable Over Wide Wavelength Range. *Journal of the American Chemical Society*, **2020**, 142, 4206-4212	16.4	74
422	Emergence of complexity in hierarchically organized chiral particles. *Science*, **2020**, 368, 642-648	33.3	85
421	Chiromagnetic Properties of Semiconductor Nanorods. *Matter*, **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. *Journal of Ophthalmic and Vision Research*, **2020**, 15, 446-452	1.2	
419	Penetration of Carbon Nanotubes into the Retinoblastoma Tumor after Intravitreal Injection in LHBETATAG Transgenic Mice Reti-noblastoma Model. *Journal of Ophthalmic and Vision Research*, **2020**, 15, 446-452	1.2	0
418	Inorganic Nanostructures with Strong Chiroptical Activity. *CCS Chemistry*, **2020**, 2, 583-604	7.2	24
417	Mie Resonance Engineering in Meta-Shell Supraparticles for Nanoscale Nonlinear Optics. *ACS Nano*, **2020**,	16.7	10
416	Diverse Nanoassemblies of Graphene Quantum Dots and Their Mineralogical Counterparts. *Angewandte Chemie*, **2020**, 132, 8620-8629	3.6	2
415	Bio-inspired Nanocomposite Membranes for Osmotic Energy Harvesting. *Joule*, **2020**, 4, 247-261	27.8	78
414	Chemo- and Thermomechanically Configurable 3D Optical Metamaterials Constructed from Colloidal Nanocrystal Assemblies. *ACS Nano*, **2020**, 14, 1427-1435	16.7	10
413	Self-Assembly of Chiral Nanoparticles into Semiconductor Helices with Tunable near-Infrared Optical Activity. *Chemistry of Materials*, **2020**, 32, 476-488	9.6	39
412	Nanoceramics: Chiral Nanoceramics (Adv. Mater. 41/2020). *Advanced Materials*, **2020**, 32, 2070311	24	2
411	Early Growth Stages of Hierarchically Organized Chiral Structures. *Microscopy and Microanalysis*, **2020**, 26, 550-551	0.5	0
410	Omnidispersible Microscale Colloids with Nanoscale Polymeric Spikes. *Chemistry of Materials*, **2020**, 32, 9897-9905	9.6	3
409	Biomorphic structural batteries for robotics. *Science Robotics*, **2020**, 5,	18.6	34
408	Plasmonic Nanoparticles with Supramolecular Recognition. *Advanced Functional Materials*, **2020**, 30, 1902082	15.6	36
407	Diverse Nanoassemblies of Graphene Quantum Dots and Their Mineralogical Counterparts. *Angewandte Chemie - International Edition*, **2020**, 59, 8542-8551	16.4	16
406	Present and Future of Surface-Enhanced Raman Scattering. *ACS Nano*, **2020**, 14, 28-117	16.7	1000

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

387	Biomimetic Nanocomposites: Water-Rich Biomimetic Composites with Abiotic Self-Organizing Nanofiber Network (Adv. Mater. 1/2018). *Advanced Materials*, **2018**, 30, 1870007	24	10
386	Unusual multiscale mechanics of biomimetic nanoparticle hydrogels. *Nature Communications*, **2018**, 9, 181	17.4	24
385	Scattering Properties of Individual Hedgehog Particles. *Journal of Physical Chemistry C*, **2018**, 122, 12015-12021	3.8	10
384	Electrochemistry on Stretchable Nanocomposite Electrodes: Dependence on Strain. *ACS Nano*, **2018**, 12, 9223-9232	16.7	8
383	Gelation-Assisted Layer-by-Layer Deposition of High Performance Nanocomposites. *Zeitschrift Fur Physikalische Chemie*, **2018**, 232, 1383-1398	3.1	5
382	Site-selective photoinduced cleavage and profiling of DNA by chiral semiconductor nanoparticles. *Nature Chemistry*, **2018**, 10, 821-830	17.6	120
381	Materials Engineering of High-Performance Anodes as Layered Composites with Self-Assembled Conductive Networks. *Journal of Physical Chemistry C*, **2018**, 122, 14014-14028	3.8	7
380	Environmentally responsive plasmonic nanoassemblies for biosensing. *Chemical Society Reviews*, **2018**, 47, 4677-4696	58.5	78
379	Sequentially bridged graphene sheets with high strength, toughness, and electrical conductivity. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 5359-5364	11.5	77
378	Multiscale Control of Nanocellulose Assembly: Transferring Remarkable Nanoscale Fibril Mechanics to Macroscale Fibers. *ACS Nano*, **2018**, 12, 6378-6388	16.7	230
377	Antibacterial Metal Oxide Nanoparticles: Challenges in Interpreting the Literature. *Current Pharmaceutical Design*, **2018**, 24, 896-903	3.3	52
376	Water-Rich Biomimetic Composites with Abiotic Self-Organizing Nanofiber Network. *Advanced Materials*, **2018**, 30, 1703343	24	94
375	Layered biomimetic nanocomposites replicate bone surface in three-dimensional cell cultures. *Nanocomposites*, **2018**, 4, 156-166	3.4	1
374	Interpretable and Efficient Interferometric Contrast in Scanning Transmission Electron Microscopy with a Diffraction-Grating Beam Splitter. *Physical Review Applied*, **2018**, 10,	4.3	14
373	Nanoporous aramid nanofibre separators for nonaqueous redox flow batteries. *Nature Communications*, **2018**, 9, 4193	17.4	53
372	Plasmonic Biomimetic Nanocomposite with Spontaneous Subwavelength Structuring as Broadband Absorbers. *ACS Energy Letters*, **2018**, 3, 1578-1583	20.1	20
371	Omnidispersible Hedgehog Particles with Multilayer Coatings for Multiplexed Biosensing. *Journal of the American Chemical Society*, **2018**, 140, 7835-7845	16.4	23
370	A Helicene Nanoribbon with Greatly Amplified Chirality. *Journal of the American Chemical Society*, **2018**, 140, 6235-6239	16.4	73

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

351	Nanoparticle Assembly:A Perspective and some Unanswered Questions. *Current Science*, **2017**, 112, 1635	2.2	10
350	Nanoparticle Assemblies into Luminescent Dendrites in Shrinking Microdroplets. *Langmuir*, **2016**, 32, 12468-12475	4	2
349	High Strength Conductive Composites with Plasmonic Nanoparticles Aligned on Aramid Nanofibers. *Advanced Functional Materials*, **2016**, 26, 8435-8445	15.6	89
348	Multiscale deformations lead to high toughness and circularly polarized emission in helical nacre-like fibres. *Nature Communications*, **2016**, 7, 10701	17.4	80
347	Biomimetic Hierarchical Assembly of Helical Supraparticles from Chiral Nanoparticles. *ACS Nano*, **2016**, 10, 3248-56	16.7	86
346	Chiral Graphene Quantum Dots. *ACS Nano*, **2016**, 10, 1744-55	16.7	216
345	Reconfigurable chiroptical nanocomposites with chirality transfer from the macro- to the nanoscale. *Nature Materials*, **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. *Journal of the American Chemical Society*, **2016**, 138, 306-12	16.4	329
343	Zinc oxide nanoparticle suspensions and layer-by-layer coatings inhibit staphylococcal growth. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2016**, 12, 33-42	6	35
342	Strong coupling of localized surface plasmons and ensembles of dye molecules. *Optics Express*, **2016**, 24, 25653-25664	3.3	9
341	Propeller-Like Nanorod-Upconversion Nanoparticle Assemblies with Intense Chiroptical Activity and Luminescence Enhancement in Aqueous Phase. *Advanced Materials*, **2016**, 28, 5907-15	24	107
340	Circular extinction of plasmonic silver nanocaps and gas sensing. *Faraday Discussions*, **2016**, 186, 345-52	3.6	1
339	Synthesis of Nanoparticle Assemblies: general discussion. *Faraday Discussions*, **2016**, 186, 123-52	3.6	
338	Kirigami Nanocomposites as Wide-Angle Diffraction Gratings. *ACS Nano*, **2016**, 10, 6156-62	16.7	57
337	Chronic in vivo stability assessment of carbon fiber microelectrode arrays. *Journal of Neural Engineering*, **2016**, 13, 066002	5	121
336	Particle self-assembly: Superstructures simplified. *Nature Nanotechnology*, **2016**, 11, 1002-1003	28.7	11
335	Anisotropic nanoparticles: general discussion. *Faraday Discussions*, **2016**, 191, 229-254	3.6	5
334	Optical anisotropy and sign reversal in layer-by-layer assembled films from chiral nanoparticles. *Faraday Discussions*, **2016**, 191, 141-157	3.6	6

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

315	A dendrite-suppressing composite ion conductor from aramid nanofibres. *Nature Communications*, **2015**, 6, 6152	17.4	225
314	Nanoparticle self-assembly: A loop of two rods. *Nature Materials*, **2014**, 13, 228-9	27	7
313	Phase-pure FeSe(x) (x = 1, 2) nanoparticles with one- and two-photon luminescence. *Journal of the American Chemical Society*, **2014**, 136, 7189-92	16.4	31
312	Terminal supraparticle assemblies from similarly charged protein molecules and nanoparticles. *Nature Communications*, **2014**, 5, 3593	17.4	81
311	Scalable nanopillar arrays with layer-by-layer patterned overt and covert images. *Advanced Materials*, **2014**, 26, 6119-24	24	34
310	Subcellular neural probes from single-crystal gold nanowires. *ACS Nano*, **2014**, 8, 8182-9	16.7	54
309	Self-organization of plasmonic and excitonic nanoparticles into resonant chiral supraparticle assemblies. *Nano Letters*, **2014**, 14, 6799-810	11.5	55
308	Simultaneously high stiffness and damping in nanoengineered microtruss composites. *ACS Nano*, **2014**, 8, 3468-75	16.7	35
307	Shell-engineered chiroplasmonic assemblies of nanoparticles for zeptomolar DNA detection. *Nano Letters*, **2014**, 14, 3908-13	11.5	145
306	Shape-morphing nanocomposite origami. *Langmuir*, **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. *PLoS ONE*, **2014**, 9, e91360	3.7	42
302	Self-Assembly Mechanism of Spiky Magnetoplasmonic Supraparticles. *Advanced Functional Materials*, **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). *Advanced Materials*, **2014**, 26, 6200-6200	24	
300	Effect of TGA Concentration on Morphology of Cu2S Nanoparticals. *Advanced Materials Research*, **2014**, 998-999, 47-50	0.5	1
299	Charge Transport Dilemma of Solution-Processed Nanomaterials. *Chemistry of Materials*, **2014**, 26, 134-152	9.8	90
298	Stretchable nanoparticle conductors with self-organized conductive pathways. *Nature*, **2013**, 500, 59-63	50.4	613

297	Self-assembly of copper sulfide nanoparticles into nanoribbons with continuous crystallinity. *ACS Nano*, **2013**, 7, 9010-8	16.7	52
296	Tissue-compliant neural implants from microfabricated carbon nanotube multilayer composite. *ACS Nano*, **2013**, 7, 7619-29	16.7	65
295	Attomolar DNA detection with chiral nanorod assemblies. *Nature Communications*, **2013**, 4, 2689	17.4	381
294	Unexpected chirality of nanoparticle dimers and ultrasensitive chiroplasmonic bioanalysis. *Journal of the American Chemical Society*, **2013**, 135, 18629-36	16.4	241
293	Chiral plasmonic nanostructures on achiral nanopillars. *Nano Letters*, **2013**, 13, 5277-83	11.5	107
292	Universal Synthesis of Single-Phase Pyrite FeS2 Nanoparticles, Nanowires, and Nanosheets. *Journal of Physical Chemistry C*, **2013**, 117, 2567-2573	3.8	103
291	Resolution of oligomeric species during the aggregation of A[illegible]1-40 using (19)F NMR. *Biochemistry*, **2013**, 52, 1903-12	3.2	85
290	Nanoparticle assemblies: dimensional transformation of nanomaterials and scalability. *Chemical Society Reviews*, **2013**, 42, 3114-26	58.5	188
289	Alternating Plasmonic Nanoparticle Heterochains Made by Polymerase Chain Reaction and Their Optical Properties. *Journal of Physical Chemistry Letters*, **2013**, 4, 641-7	6.4	69
288	Nanoengineered colloidal probes for Raman-based detection of biomolecules inside living cells. *Small*, **2013**, 9, 351-6	11	47
287	Reactive Aramid Nanostructures as High-Performance Polymeric Building Blocks for Advanced Composites. *Advanced Functional Materials*, **2013**, 23, 2072-2080	15.6	124
286	Thermodynamic and structural insights into nanocomposites engineering by comparing two materials assembly techniques for graphene. *ACS Nano*, **2013**, 7, 4818-29	16.7	113
285	Sensitive Detection of Silver Ions Based on Chiroplasmonic Assemblies of Nanoparticles. *Advanced Optical Materials*, **2013**, 1, 626-630	8.1	52
284	Chiral plasmonics of self-assembled nanorod dimers. *Scientific Reports*, **2013**, 3, 1934	4.9	165
283	Replication of bone marrow differentiation niche: comparative evaluation of different three-dimensional matrices. *Small*, **2013**, 9, 1008-15	11	18
282	Self-assembled nanorod supercrystals for ultrasensitive SERS diagnostics. *Nano Today*, **2012**, 7, 6-9	17.9	53
281	Ultrasmall implantable composite microelectrodes with bioactive surfaces for chronic neural interfaces. *Nature Materials*, **2012**, 11, 1065-73	27	482
280	Streptavidin Inhibits Self-Assembly of CdTe Nanoparticles. *Journal of Physical Chemistry Letters*, **2012**, 3, 3249-3256	6.4	6

279	Traversing Material Scales: Macroscale LBL-Assembled Nanocomposites with Microscale Inverted Colloidal Crystal Architecture. *Chemistry of Materials*, **2012**, 24, 9-11	9.6	12
278	Self-assembly of chiral nanoparticle pyramids with strong R/S optical activity. *Journal of the American Chemical Society*, **2012**, 134, 15114-21	16.4	316
277	The state of nanoparticle-based nanoscience and biotechnology: progress, promises, and challenges. *ACS Nano*, **2012**, 6, 8468-83	16.7	188
276	Pseudonegative thermal expansion and the state of water in graphene oxide layered assemblies. *ACS Nano*, **2012**, 6, 8357-65	16.7	119
275	Layered nanocomposites from gold nanoparticles for neural prosthetic devices. *Nano Letters*, **2012**, 12, 3391-8	11.5	67
274	Record Properties of Layer-by-Layer Assembled Composites **2012**, 573-593		1
273	Regiospecific plasmonic assemblies for in situ Raman spectroscopy in live cells. *Journal of the American Chemical Society*, **2012**, 134, 1699-709	16.4	240
272	Graphene-based multilayers: Critical evaluation of materials assembly techniques. *Nano Today*, **2012**, 7, 430-447	17.9	112
271	Ultrafast laser orthogonal alignment and patterning of carbon nanotube-polymer composite films. *Applied Physics Letters*, **2012**, 101, 203301	3.4	2
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