Nicholas A Kotov

List of Publications by Citations

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	Structural diversity in binary nanoparticle superlattices. *Nature*, **2006**, 439, 55-9	50.4	1776
457	Spontaneous organization of single CdTe nanoparticles into luminescent nanowires. *Science*, **2002**, 297, 237-40	33.3	1677
456	Ultrastrong and stiff layered polymer nanocomposites. *Science*, **2007**, 318, 80-3	33.3	1322
455	Nanostructured artificial nacre. *Nature Materials*, **2003**, 2, 413-8	27	1225
454	Biomedical Applications of Layer-by-Layer Assembly: From Biomimetics to Tissue Engineering. *Advanced Materials*, **2006**, 18, 3203-3224	24	1138
453	Present and Future of Surface-Enhanced Raman Scattering. *ACS Nano*, **2020**, 14, 28-117	16.7	1000
452	Molecular design of strong single-wall carbon nanotube/polyelectrolyte multilayer composites. *Nature Materials*, **2002**, 1, 190-4	27	858
451	Three-dimensional cell culture matrices: state of the art. *Tissue Engineering - Part B: Reviews*, **2008**, 14, 61-86	7.9	790
450	Self-assembly of CdTe nanocrystals into free-floating sheets. *Science*, **2006**, 314, 274-8	33.3	772
449	One-Dimensional Assemblies of Nanoparticles: Preparation, Properties, and Promise. *Advanced Materials*, **2005**, 17, 951-962	24	716
448	Diverse Applications of Nanomedicine. *ACS Nano*, **2017**, 11, 2313-2381	16.7	714
447	Layer-by-Layer Self-Assembly of Polyelectrolyte-Semiconductor Nanoparticle Composite Films. *The Journal of Physical Chemistry*, **1995**, 99, 13065-13069		696
446	Targeted gold nanoparticles enable molecular CT imaging of cancer. *Nano Letters*, **2008**, 8, 4593-6	11.5	640
445	Stretchable nanoparticle conductors with self-organized conductive pathways. *Nature*, **2013**, 500, 59-63	50.4	613
444	Ultrathin graphite oxide–polyelectrolyte composites prepared by self-assembly: Transition between conductive and non-conductive states. *Advanced Materials*, **1996**, 8, 637-641	24	523
443	Gold nanoparticle ensembles as heaters and actuators: melting and collective plasmon resonances. *Nanoscale Research Letters*, **2006**, 1, 84-90	5	493
442	Ultrasmall implantable composite microelectrodes with bioactive surfaces for chronic neural interfaces. *Nature Materials*, **2012**, 11, 1065-73	27	482

441	Composite Layer-by-Layer (LBL) assembly with inorganic nanoparticles and nanowires. *Accounts of Chemical Research*, **2008**, 41, 1831-41	24.3	476
440	Antigen/Antibody Immunocomplex from CdTe Nanoparticle Bioconjugates. *Nano Letters*, **2002**, 2, 817-822	11.5	459
439	Smart electronic yarns and wearable fabrics for human biomonitoring made by carbon nanotube coating with polyelectrolytes. *Nano Letters*, **2008**, 8, 4151-7	11.5	447
438	Exciton–Plasmon Interaction and Hybrid Excitons in Semiconductor–Metal Nanoparticle Assemblies. *Nano Letters*, **2006**, 6, 984-994	11.5	446
437	Chiral Inorganic Nanostructures. *Chemical Reviews*, **2017**, 117, 8041-8093	68.1	435
436	Self-assembly of self-limiting monodisperse supraparticles from polydisperse nanoparticles. *Nature Nanotechnology*, **2011**, 6, 580-7	28.7	429
435	Nanomaterials for Neural Interfaces. *Advanced Materials*, **2009**, 21, 3970-4004	24	422
434	Albumin–CdTe Nanoparticle Bioconjugates: Preparation, Structure, and Interunit Energy Transfer with Antenna Effect. *Nano Letters*, **2001**, 1, 281-286	11.5	393
433	A kirigami approach to engineering elasticity in nanocomposites through patterned defects. *Nature Materials*, **2015**, 14, 785-9	27	389
432	Raisin Bun–Type Composite Spheres of Silica and Semiconductor Nanocrystals. *Chemistry of Materials*, **2000**, 12, 2676-2685	9.6	386
431	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, 8157-61	11.5	383
430	Attomolar DNA detection with chiral nanorod assemblies. *Nature Communications*, **2013**, 4, 2689	17.4	381
429	Layer-by-Layer Assembled Mixed Spherical and Planar Gold Nanoparticles: Control of Interparticle Interactions. *Langmuir*, **2002**, 18, 3694-3697	4	376
428	Bioconjugates of CdTe Nanowires and Au Nanoparticles: Plasmon–Exciton Interactions, Luminescence Enhancement, and Collective Effects. *Nano Letters*, **2004**, 4, 2323-2330	11.5	338
427	Dispersions of aramid nanofibers: a new nanoscale building block. *ACS Nano*, **2011**, 5, 6945-54	16.7	337
426	Functional Graphene Nanomaterials Based Architectures: Biointeractions, Fabrications, and Emerging Biological Applications. *Chemical Reviews*, **2017**, 117, 1826-1914	68.1	333
425	Aqueous dispersions of single-wall and multiwall carbon nanotubes with designed amphiphilic polycations. *Journal of the American Chemical Society*, **2005**, 127, 3463-72	16.4	332
424	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

423	Nonadditivity of nanoparticle interactions. *Science*, **2015**, 350, 1242477	33.3	327
422	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
421	High sensitivity of in vivo detection of gold nanorods using a laser optoacoustic imaging system. *Nano Letters*, **2007**, 7, 1914-8	11.5	309
420	Light-controlled self-assembly of semiconductor nanoparticles into twisted ribbons. *Science*, **2010**, 327, 1355-9	33.3	303
419	Targeted gold nanorod contrast agent for prostate cancer detection by photoacoustic imaging. *Journal of Applied Physics*, **2007**, 102, 064701	2.5	299
418	One-Pot Synthesis of Ag@TiO2Core-Shell Nanoparticles and Their Layer-by-Layer Assembly. *Langmuir*, **2000**, 16, 2731-2735	4	299
417	Exciton-plasmon interactions in molecular spring assemblies of nanowires and wavelength-based protein detection. *Nature Materials*, **2007**, 6, 291-5	27	296
416	Successful differentiation of mouse neural stem cells on layer-by-layer assembled single-walled carbon nanotube composite. *Nano Letters*, **2007**, 7, 1123-8	11.5	282
415	Free-Standing Layer-by-Layer Assembled Films of Magnetite Nanoparticles. *Langmuir*, **2000**, 16, 5530-5533	4	270
414	Chemistry. Inorganic nanoparticles as protein mimics. *Science*, **2010**, 330, 188-9	33.3	265
413	Nanorainbows: graded semiconductor films from quantum dots. *Journal of the American Chemical Society*, **2001**, 123, 7738-9	16.4	265
412	Two modes of linear layer-by-layer growth of nanoparticle--polylectrolyte multilayers and different interactions in the layer-by-layer deposition. *Journal of the American Chemical Society*, **2001**, 123, 1101-10	16.4	257
411	Mechanism of Strong Luminescence Photoactivation of Citrate-Stabilized Water-Soluble Nanoparticles with CdSe Cores. *Journal of Physical Chemistry B*, **2004**, 108, 15461-15469	3.4	254
410	Chiral templating of self-assembling nanostructures by circularly polarized light. *Nature Materials*, **2015**, 14, 66-72	27	251
409	In vitro toxicity testing of nanoparticles in 3D cell culture. *Small*, **2009**, 5, 1213-21	11	244
408	Layer-by-Layer Assembled Composites from Multiwall Carbon Nanotubes with Different Morphologies. *Nano Letters*, **2004**, 4, 1889-1895	11.5	243
407	Unexpected chirality of nanoparticle dimers and ultrasensitive chiroplasmonic bioanalysis. *Journal of the American Chemical Society*, **2013**, 135, 18629-36	16.4	241
406	Regiospecific plasmonic assemblies for in situ Raman spectroscopy in live cells. *Journal of the American Chemical Society*, **2012**, 134, 1699-709	16.4	240

405	Layer-by-layer self-assembly: The contribution of hydrophobic interactions. *Scripta Materialia*, **1999**, 12, 789-796		239
404	Bioconjugated gold nanoparticles as a molecular based contrast agent: implications for imaging of deep tumors using optoacoustic tomography. *Molecular Imaging and Biology*, **2004**, 6, 341-9	3.8	237
403	Side-by-side and end-to-end gold nanorod assemblies for environmental toxin sensing. *Angewandte Chemie - International Edition*, **2010**, 49, 5472-5	16.4	231
402	Mechanism of and Defect Formation in the Self-Assembly of Polymeric Polycation□Montmorillonite Ultrathin Films. *Journal of the American Chemical Society*, **1997**, 119, 6821-6832	16.4	231
401	Multiscale Control of Nanocellulose Assembly: Transferring Remarkable Nanoscale Fibril Mechanics to Macroscale Fibers. *ACS Nano*, **2018**, 12, 6378-6388	16.7	230
400	Layer-by-layer assembly of nacre-like nanostructured composites with antimicrobial properties. *Langmuir*, **2005**, 21, 11915-21	4	228
399	A dendrite-suppressing composite ion conductor from aramid nanofibres. *Nature Communications*, **2015**, 6, 6152	17.4	225
398	Molecularly engineered nanocomposites: layer-by-layer assembly of cellulose nanocrystals. *Biomacromolecules*, **2005**, 6, 2914-8	6.9	223
397	Simple, rapid, sensitive, and versatile SWNT-paper sensor for environmental toxin detection competitive with ELISA. *Nano Letters*, **2009**, 9, 4147-52	11.5	222
396	Theory of plasmon-enhanced F□ster energy transfer in optically excited semiconductor and metal nanoparticles. *Physical Review B*, **2007**, 76,	3.3	220
395	Similar topological origin of chiral centers in organic and nanoscale inorganic structures: effect of stabilizer chirality on optical isomerism and growth of CdTe nanocrystals. *Journal of the American Chemical Society*, **2010**, 132, 6006-13	16.4	218
394	Multifunctional layer-by-layer carbon nanotube□polyelectrolyte thin films for strain and corrosion sensing. *Smart Materials and Structures*, **2007**, 16, 429-438	3.4	218
393	Chiral Graphene Quantum Dots. *ACS Nano*, **2016**, 10, 1744-55	16.7	216
392	Self-assembly: From nanoscale to microscale colloids. *AICHE Journal*, **2004**, 50, 2978-2985	3.6	216
391	Inhibition of amyloid peptide fibrillation by inorganic nanoparticles: functional similarities with proteins. *Angewandte Chemie - International Edition*, **2011**, 50, 5110-5	16.4	213
390	CNT-CdTe versatile donor-acceptor nanohybrids. *Journal of the American Chemical Society*, **2006**, 128, 2315-23	16.4	212
389	Nanoparticle superstructures made by polymerase chain reaction: collective interactions of nanoparticles and a new principle for chiral materials. *Nano Letters*, **2009**, 9, 2153-9	11.5	208
388	Electrophoretic Deposition of Latex-Based 3D Colloidal Photonic Crystals: A Technique for Rapid Production of High-Quality Opals. *Chemistry of Materials*, **2000**, 12, 2721-2726	9.6	208

387	Coupled Composite CdS□CdSe and Core□Shell Types of (CdS)CdSe and (CdSe)CdS Nanoparticles. *The Journal of Physical Chemistry*, **1996**, 100, 8927-8939		205
386	Dynamic nanoparticle assemblies. *Accounts of Chemical Research*, **2012**, 45, 1916-26	24.3	198
385	Exponential growth of LBL films with incorporated inorganic sheets. *Nano Letters*, **2008**, 8, 1762-70	11.5	196
384	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	24	189
383	Nanoparticle assemblies: dimensional transformation of nanomaterials and scalability. *Chemical Society Reviews*, **2013**, 42, 3114-26	58.5	188
382	The state of nanoparticle-based nanoscience and biotechnology: progress, promises, and challenges. *ACS Nano*, **2012**, 6, 8468-83	16.7	188
381	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	24	184
380	Multicolor luminescence patterning by photoactivation of semiconductor nanoparticle films. *Journal of the American Chemical Society*, **2003**, 125, 2830-1	16.4	178
379	Electrical stimulation of neural stem cells mediated by humanized carbon nanotube composite made with extracellular matrix protein. *Nano Letters*, **2009**, 9, 273-8	11.5	174
378	Crystal field, phonon coupling and emission shift of Mn2+ in ZnS:Mn nanoparticles. *Journal of Applied Physics*, **2001**, 89, 1120-1129	2.5	172
377	Reconfigurable chiroptical nanocomposites with chirality transfer from the macro- to the nanoscale. *Nature Materials*, **2016**, 15, 461-8	27	169
376	Carbon Nanotube Sensing Skins for Spatial Strain and Impact Damage Identification. *Journal of Nondestructive Evaluation*, **2009**, 28, 9-25	2.1	166
375	Nanoparticle assembly for 1D and 2D ordered structures. *Soft Matter*, **2009**, 5, 1146	3.6	166
374	Chiral plasmonics of self-assembled nanorod dimers. *Scientific Reports*, **2013**, 3, 1934	4.9	165
373	Silver nanowire embedded in P3HT:PCBM for high-efficiency hybrid photovoltaic device applications. *ACS Nano*, **2011**, 5, 3319-25	16.7	165
372	Thermometer design at the nanoscale. *Nano Today*, **2007**, 2, 48-51	17.9	163
371	Nanoparticle assemblies with molecular springs: a nanoscale thermometer. *Angewandte Chemie - International Edition*, **2005**, 44, 7439-42	16.4	163
370	Gold nanoparticles enhance the anti-leukemia action of a 6-mercaptopurine chemotherapeutic agent. *Langmuir*, **2008**, 24, 568-74	4	161

369	Control of Packing Order of Self-Assembled Monolayers of Magnetite Nanoparticles with and without SiO2 Coating by Microwave Irradiation. *Langmuir*, **1998**, 14, 6430-6435	4	155
368	Layer-by-layer assembled films of cellulose nanowires with antireflective properties. *Langmuir*, **2007**, 23, 7901-6	4	154
367	Stratified Assemblies of Magnetite Nanoparticles and Montmorillonite Prepared by the Layer-by-Layer Assembly. *Langmuir*, **2000**, 16, 3941-3949	4	154
366	High-content screening as a universal tool for fingerprinting of cytotoxicity of nanoparticles. *ACS Nano*, **2008**, 2, 928-38	16.7	151
365	Single-Walled Carbon Nanotube Polyelectrolyte Multilayers and Freestanding Films as a Biocompatible Platform for Neuroprosthetic Implants. *Advanced Materials*, **2005**, 17, 2663-2670	24	147
364	Bioconjugated superstructures of CdTe nanowires and nanoparticles: multistep cascade Förster resonance energy transfer and energy channeling. *Nano Letters*, **2005**, 5, 2063-9	11.5	146
363	Collagen Coating Promotes Biocompatibility of Semiconductor Nanoparticles in Stratified LBL Films. *Nano Letters*, **2003**, 3, 1177-1182	11.5	146
362	Shell-engineered chiroplasmonic assemblies of nanoparticles for zeptomolar DNA detection. *Nano Letters*, **2014**, 14, 3908-13	11.5	145
361	Integration of Conductivity, Transparency, and Mechanical Strength into Highly Homogeneous Layer-by-Layer Composites of Single-Walled Carbon Nanotubes for Optoelectronics. *Chemistry of Materials*, **2007**, 19, 5467-5474	9.6	145
360	SERS-active gold lace nanoshells with built-in hotspots. *Nano Letters*, **2010**, 10, 4013-9	11.5	142
359	Biomaterials by Design: Layer-By-Layer Assembled Ion-Selective and Biocompatible Films of TiO2 Nanoshells for Neurochemical Monitoring. *Advanced Functional Materials*, **2002**, 12, 255	15.6	140
358	Shape-Dependent Biomimetic Inhibition of Enzyme by Nanoparticles and Their Antibacterial Activity. *ACS Nano*, **2015**, 9, 9097-105	16.7	139
357	Origami and Kirigami Nanocomposites. *ACS Nano*, **2017**, 11, 7587-7599	16.7	139
356	Inverted colloidal crystals as three-dimensional cell scaffolds. *Langmuir*, **2004**, 20, 7887-92	4	136
355	Simulations and analysis of self-assembly of CdTe nanoparticles into wires and sheets. *Nano Letters*, **2007**, 7, 1670-5	11.5	134
354	Simple Preparation Strategy and One-Dimensional Energy Transfer in CdTe Nanoparticle Chains. *Journal of Physical Chemistry B*, **2004**, 108, 6927-6931	3.4	134
353	Counterintuitive effect of molecular strength and role of molecular rigidity on mechanical properties of layer-by-layer assembled nanocomposites. *Nano Letters*, **2007**, 7, 1224-31	11.5	133
352	Spontaneous Transformation of Stabilizer-Depleted Binary Semiconductor Nanoparticles into Selenium and Tellurium Nanowires. *Advanced Materials*, **2005**, 17, 358-363	24	133

351	Multiparameter structural optimization of single-walled carbon nanotube composites: toward record strength, stiffness, and toughness. *ACS Nano*, **2009**, 3, 1711-22	16.7	131
350	Stimulation of Neural Cells by Lateral Currents in Conductive Layer-by-Layer Films of Single-Walled Carbon Nanotubes. *Advanced Materials*, **2006**, 18, 2975-2979	24	130
349	Layer-by-Layer Assembled Films of HgTe Nanocrystals with Strong Infrared Emission. *Chemistry of Materials*, **2000**, 12, 1526-1528	9.6	130
348	Unexpected insights into antibacterial activity of zinc oxide nanoparticles against methicillin resistant Staphylococcus aureus (MRSA). *Nanoscale*, **2018**, 10, 4927-4939	7.7	129
347	Transparent conductors from layer-by-layer assembled SWNT films: importance of mechanical properties and a new figure of merit. *ACS Nano*, **2010**, 4, 3725-34	16.7	128
346	Nanoscale engineering of a cellular interface with semiconductor nanoparticle films for photoelectric stimulation of neurons. *Nano Letters*, **2007**, 7, 513-9	11.5	128
345	Abiotic tooth enamel. *Nature*, **2017**, 543, 95-98	50.4	127
344	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
343	Engineering liver tissue spheroids with inverted colloidal crystal scaffolds. *Biomaterials*, **2009**, 30, 4687-94	15.6	125
342	Reactive Aramid Nanostructures as High-Performance Polymeric Building Blocks for Advanced Composites. *Advanced Functional Materials*, **2013**, 23, 2072-2080	15.6	124
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340	Chiromagnetic nanoparticles and gels. *Science*, **2018**, 359, 309-314	33.3	122
339	Photoacoustic imaging of early inflammatory response using gold nanorods. *Applied Physics Letters*, **2007**, 90, 223901	3.4	122
338	Tailoring Piezoresistive Sensitivity of Multilayer Carbon Nanotube Composite Strain Sensors. *Journal of Intelligent Material Systems and Structures*, **2008**, 19, 747-764	2.3	121
337	Chronic in vivo stability assessment of carbon fiber microelectrode arrays. *Journal of Neural Engineering*, **2016**, 13, 066002	5	121
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335	Pseudonegative thermal expansion and the state of water in graphene oxide layered assemblies. *ACS Nano*, **2012**, 6, 8357-65	16.7	119
334	Ultrasound stimulated release and catalysis using polyelectrolyte multilayer capsules. *Journal of Materials Chemistry*, **2007**, 17, 1050-1054		118

333	In vitro analog of human bone marrow from 3D scaffolds with biomimetic inverted colloidal crystal geometry. *Biomaterials*, **2009**, 30, 1071-9	15.6	115
332	Thermodynamic and structural insights into nanocomposites engineering by comparing two materials assembly techniques for graphene. *ACS Nano*, **2013**, 7, 4818-29	16.7	113
331	Crown ether assembly of gold nanoparticles: melamine sensor. *Biosensors and Bioelectronics*, **2011**, 26, 2032-7	11.8	113
330	Graphene-based multilayers: Critical evaluation of materials assembly techniques. *Nano Today*, **2012**, 7, 430-447	17.9	112
329	Inverted-Colloidal-Crystal Hydrogel Matrices as Three-Dimensional Cell Scaffolds. *Advanced Functional Materials*, **2005**, 15, 725-731	15.6	112
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325	Chiral plasmonic nanostructures on achiral nanopillars. *Nano Letters*, **2013**, 13, 5277-83	11.5	107
324	Propeller-Like Nanorod-Upconversion Nanoparticle Assemblies with Intense Chiroptical Activity and Luminescence Enhancement in Aqueous Phase. *Advanced Materials*, **2016**, 28, 5907-15	24	107
323	Nanoparticle-based environmental sensors. *Materials Science and Engineering Reports*, **2010**, 70, 265-274	30.9	106
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321	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
320	Universal Synthesis of Single-Phase Pyrite FeS2 Nanoparticles, Nanowires, and Nanosheets. *Journal of Physical Chemistry C*, **2013**, 117, 2567-2573	3.8	103
319	Layered carbon nanotube-polyelectrolyte electrodes outperform traditional neural interface materials. *Nano Letters*, **2009**, 9, 4012-8	11.5	103
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317	High-Performance Nanostructured Membrane Electrode Assemblies for Fuel Cells Made by Layer-By-Layer Assembly of Carbon Nanocolloids. *Advanced Materials*, **2007**, 19, 3859-3864	24	100
316	Assembly of mesoscale helices with near-unity enantiomeric excess and light-matter interactions for chiral semiconductors. *Science Advances*, **2017**, 3, e1601159	14.3	96

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312	Water-Rich Biomimetic Composites with Abiotic Self-Organizing Nanofiber Network. *Advanced Materials*, **2018**, 30, 1703343	24	94
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310	Single particle plasmon spectroscopy of silver nanowires and gold nanorods. *Nano Letters*, **2008**, 8, 3200-4	11.5	92
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303	Preparation of Nanoparticle Coatings on Surfaces of Complex Geometry. *Nano Letters*, **2003**, 3, 173-177	11.5	88
302	In2S3 Nanocolloids with Excitonic Emission: In2S3 vs CdS Comparative Study of Optical and Structural Characteristics. *Journal of Physical Chemistry B*, **2001**, 105, 7490-7498	3.4	88
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300	Formation and assembly-disassembly processes of ZnO hexagonal pyramids driven by dipolar and excluded volume interactions. *Journal of the American Chemical Society*, **2010**, 132, 1860-72	16.4	87
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297	A Floating Self-Assembly Route to Colloidal Crystal Templates for 3D Cell Scaffolds. *Chemistry of Materials*, **2005**, 17, 4918-4924	9.6	86
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294	Resolution of oligomeric species during the aggregation of A□1-40 using (19)F NMR. *Biochemistry*, **2013**, 52, 1903-12	3.2	85
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