Jonathan Hill

List of Publications by Citations

364 papers	20,224 citations	68 h-index	131 g-index
419 ext. papers	21,925 ext. citations	7.6 avg, IF	7 L-index

#	Paper	IF	Citations
364	Layer-by-layer assembly as a versatile bottom-up nanofabrication technique for exploratory research and realistic application. *Physical Chemistry Chemical Physics*, **2007**, 9, 2319-40	3.6	1040
363	Self-assembled hexa-peri-hexabenzocoronene graphitic nanotube. *Science*, **2004**, 304, 1481-3	33.3	923
362	Layer-by-layer Nanoarchitectonics: Invention, Innovation, and Evolution. *Chemistry Letters*, **2014**, 43, 36-68	1.7	761
361	Challenges and breakthroughs in recent research on self-assembly. *Science and Technology of Advanced Materials*, **2008**, 9, 014109	7.1	645
360	Nanoarchitectonics for Mesoporous Materials. *Bulletin of the Chemical Society of Japan*, **2012**, 85, 1-32	5.1	602
359	Layer-by-layer self-assembled shells for drug delivery. *Advanced Drug Delivery Reviews*, **2011**, 63, 762-71	18.5	376
358	Nanoarchitectonics for Dynamic Functional Materials from Atomic-/Molecular-Level Manipulation to Macroscopic Action. *Advanced Materials*, **2016**, 28, 1251-86	24	373
357	Mechanical control of nanomaterials and nanosystems. *Advanced Materials*, **2012**, 24, 158-76	24	353
356	25th anniversary article: what can be done with the Langmuir-Blodgett method? Recent developments and its critical role in materials science. *Advanced Materials*, **2013**, 25, 6477-512	24	345
355	Enzyme nanoarchitectonics: organization and device application. *Chemical Society Reviews*, **2013**, 42, 6322-45	58.5	330
354	Molecular recognition: from solution science to nano/materials technology. *Chemical Society Reviews*, **2012**, 41, 5800-35	58.5	321
353	Forming nanomaterials as layered functional structures toward materials nanoarchitectonics. *NPG Asia Materials*, **2012**, 4, e17-e17	10.3	305
352	Layer-by-layer films of graphene and ionic liquids for highly selective gas sensing. *Angewandte Chemie - International Edition*, **2010**, 49, 9737-9	16.4	276
351	Nanoarchitectonics: a conceptual paradigm for design and synthesis of dimension-controlled functional nanomaterials. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 1-13	1.3	272
350	Amphiphile nanoarchitectonics: from basic physical chemistry to advanced applications. *Physical Chemistry Chemical Physics*, **2013**, 15, 10580-611	3.6	268
349	Porphyrin-based sensor nanoarchitectonics in diverse physical detection modes. *Physical Chemistry Chemical Physics*, **2014**, 16, 9713-46	3.6	265
348	Electrochemical nanoarchitectonics and layer-by-layer assembly: From basics to future. *Nano Today*, **2015**, 10, 138-167	17.9	238

347	Bioactive nanocarbon assemblies: Nanoarchitectonics and applications. *Nano Today*, **2014**, 9, 378-394	17.9	210
346	Nanoarchitectonics: a new materials horizon for nanotechnology. *Materials Horizons*, **2015**, 2, 406-413	14.4	210
345	Self-assembly as a key player for materials nanoarchitectonics. *Science and Technology of Advanced Materials*, **2019**, 20, 51-95	7.1	204
344	Inorganic Nanoarchitectonics for Biological Applications. *Chemistry of Materials*, **2012**, 24, 728-737	9.6	195
343	Soft LangmuirBlodgett Technique for Hard Nanomaterials. *Advanced Materials*, **2009**, 21, 2959-2981	24	190
342	Fullerene nanoarchitectonics: from zero to higher dimensions. *Chemistry - an Asian Journal*, **2013**, 8, 1662-79	4.5	182
341	Solvent engineering for shape-shifter pure fullerene (C60). *Journal of the American Chemical Society* , **2009**, 131, 6372-3	16.4	173
340	Coordination chemistry and supramolecular chemistry in mesoporous nanospace. *Coordination Chemistry Reviews*, **2007**, 251, 2562-2591	23.2	167
339	Selective, sensitive and reversible "turn-on" fluorescent cyanide probes based on 2,2′-dipyridylaminoanthracene-Cu2+ ensembles. *Chemical Communications*, **2012**, 48, 11513-5	5.8	165
338	Selective and sensitive "turn-on" fluorescent Zn2+ sensors based on di- and tripyrrins with readily modulated emission wavelengths. *Chemical Communications*, **2011**, 47, 5431-3	5.8	159
337	Mechanical control of enantioselectivity of amino acid recognition by cholesterol-armed cyclen monolayer at the air-water interface. *Journal of the American Chemical Society*, **2006**, 128, 14478-9	16.4	159
336	Thin-film-based nanoarchitectures for soft matter: controlled assemblies into two-dimensional worlds. *Small*, **2011**, 7, 1288-308	11	150
335	Materials nanoarchitectonics for environmental remediation and sensing. *Journal of Materials Chemistry*, **2012**, 22, 2369-2377		147
334	Steric hindrance-enforced distortion as a general strategy for the design of fluorescence "turn-on" cyanide probes. *Chemical Communications*, **2013**, 49, 10136-8	5.8	142
333	Two-dimensional nanoarchitectonics based on self-assembly. *Advances in Colloid and Interface Science*, **2010**, 154, 20-9	14.3	141
332	Stimuli-free auto-modulated material release from mesoporous nanocompartment films. *Journal of the American Chemical Society*, **2008**, 130, 2376-7	16.4	135
331	Electrochemical-coupling layer-by-layer (ECC-LbL) assembly. *Journal of the American Chemical Society*, **2011**, 133, 7348-51	16.4	131
330	Layer-by-layer films of dual-pore carbon capsules with designable selectivity of gas adsorption. *Journal of the American Chemical Society*, **2009**, 131, 4220-1	16.4	131

329	One-pot separation of tea components through selective adsorption on pore-engineered nanocarbon, carbon nanocage. *Journal of the American Chemical Society*, **2007**, 129, 11022-3	16.4	130
328	A layered mesoporous carbon sensor based on nanopore-filling cooperative adsorption in the liquid phase. *Angewandte Chemie - International Edition*, **2008**, 47, 7254-7	16.4	128
327	Fullerene crystals with bimodal pore architectures consisting of macropores and mesopores. *Journal of the American Chemical Society*, **2013**, 135, 586-9	16.4	125
326	Room temperature liquid fullerenes: an uncommon morphology of C60 derivatives. *Journal of the American Chemical Society*, **2006**, 128, 10384-5	16.4	123
325	Bioinspired nanoarchitectonics as emerging drug delivery systems. *New Journal of Chemistry*, **2014**, 38, 5149-5163	3.6	118
324	A Polymer-Electrolyte-Based Atomic Switch. *Advanced Functional Materials*, **2011**, 21, 93-99	15.6	117
323	Gold Nanoparticles Aggregation: Drastic Effect of Cooperative Functionalities in a Single Molecular Conjugate. *Journal of Physical Chemistry C*, **2012**, 116, 2683-2690	3.8	114
322	Hierarchically Structured Fullerene C70 Cube for Sensing Volatile Aromatic Solvent Vapors. *ACS Nano*, **2016**, 10, 6631-7	16.7	112
321	□Cyclodextrin-crosslinked alginate gel for patient-controlled drug delivery systems: regulation of host-guest interactions with mechanical stimuli. *Journal of Materials Chemistry B*, **2013**, 1, 2155-2161	7.3	110
320	Mechanical tuning of molecular recognition to discriminate the single-methyl-group difference between thymine and uracil. *Journal of the American Chemical Society*, **2010**, 132, 12868-70	16.4	105
319	Putting the 'N' in ACENE: pyrazinacenes and their structural relatives. *Organic and Biomolecular Chemistry*, **2011**, 9, 5005-17	3.9	104
318	Biomaterials and biofunctionality in layered macromolecular assemblies. *Macromolecular Bioscience* , **2008**, 8, 981-90	5.5	104
317	Highly Ordered 1D Fullerene Crystals for Concurrent Control of Macroscopic Cellular Orientation and Differentiation toward Large-Scale Tissue Engineering. *Advanced Materials*, **2015**, 27, 4020-6	24	101
316	Layer-by-layer assembly for drug delivery and related applications. *Expert Opinion on Drug Delivery*, **2011**, 8, 633-44	8	100
315	Nanoporous carbon tubes from fullerene crystals as the □electron carbon source. *Angewandte Chemie - International Edition*, **2015**, 54, 951-5	16.4	96
314	Vortex-aligned fullerene nanowhiskers as a scaffold for orienting cell growth. *ACS Applied Materials & Interfaces*, **2015**, 7, 15667-73	9.5	90
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312	NMR spectroscopic detection of chirality and enantiopurity in referenced systems without formation of diastereomers. *Nature Communications*, **2013**, 4, 2188	17.4	88

311	Mechanochemical Tuning of the Binaphthyl Conformation at the Air-Water Interface. *Angewandte Chemie - International Edition*, **2015**, 54, 8988-91	16.4	86
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309	Anion-complexation-induced stabilization of charge separation. *Journal of the American Chemical Society*, **2009**, 131, 16138-46	16.4	85
308	Self-Construction from 2D to 3D: One-Pot Layer-by-Layer Assembly of Graphene Oxide Sheets Held Together by Coordination Polymers. *Angewandte Chemie - International Edition*, **2016**, 55, 8426-30	16.4	84
307	Enzyme-Encapsulated Layer-by-Layer Assemblies: Current Status and Challenges Toward Ultimate Nanodevices. *Advances in Polymer Science*, **2010**, 51-87	1.3	82
306	Hierarchic Nanostructure for Auto-Modulation of Material Release: Mesoporous Nanocompartment Films. *Advanced Functional Materials*, **2009**, 19, 1792-1799	15.6	79
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294	A mechanically controlled indicator displacement assay. *Angewandte Chemie - International Edition*, **2012**, 51, 9643-6	16.4	66

293	Interfacial nanoarchitectonics: lateral and vertical, static and dynamic. *Langmuir*, **2013**, 29, 8459-71	4	65
292	Chromogenic indicator for anion reporting based on an N-substituted oxoporphyrinogen. *Inorganic Chemistry*, **2006**, 45, 8288-96	5.1	65
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290	Tunable pK of amino acid residues at the air-water interface gives an L-zyme (langmuir enzyme). *Journal of the American Chemical Society*, **2005**, 127, 12074-80	16.4	64
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285	Surfactant-assisted assembly of fullerene (C60) nanorods and nanotubes formed at a liquid-liquid interface. *Langmuir*, **2013**, 29, 7195-202	4	62
284	Nuclear magnetic resonance signaling of molecular chiral information using an achiral reagent. *Journal of the American Chemical Society*, **2009**, 131, 9494-5	16.4	62
283	Supramolecular 1-D polymerization of DNA origami through a dynamic process at the 2-dimensionally confined air-water interface. *Physical Chemistry Chemical Physics*, **2016**, 18, 12576-81	3.6	62
282	Alcohol-induced decomposition of Olmstead's crystalline Ag(I)Fullerene heteronanostructure yields Bucky cubes *Journal of Materials Chemistry C*, **2013**, 1, 1174-1181	7.1	59
281	Paradigm shift from self-assembly to commanded assembly of functional materials: recent examples in porphyrin/fullerene supramolecular systems. *Science and Technology of Advanced Materials*, **2012**, 13, 053001	7.1	59
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271	Shell-adjustable hollow Soft Silica spheres as a support for gold nanoparticles. *Journal of Materials Chemistry A*, **2013**, 1, 3600	13	55
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263	Nanorod-Driven Orientational Control of Liquid Crystal for Polarization-Tailored Electro-Optic Devices. *Advanced Materials*, **2009**, 21, 989-993	24	51
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260	Rapid exchange between atmospheric CO2 and carbonate anion intercalated within magnesium rich layered double hydroxide. *ACS Applied Materials & Interfaces*, **2014**, 6, 18352-9	9.5	49
259	Multi-Dimensional Control of Surfactant-Guided Assemblies of Quantum Gold Particles. *Advanced Materials*, **2008**, 20, 4027-4032	24	49
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252	Graphene-carbon 2D heterostructures with hierarchically-porous P,N-doped layered architecture for capacitive deionization. *Chemical Science*, **2021**, 12, 10334-10340	9.4	45
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247	Surfactant-Triggered Nanoarchitectonics of Fullerene C Crystals at a Liquid-Liquid Interface. *Langmuir*, **2016**, 32, 12511-12519	4	43
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