

Lok Kumar Shrestha

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534
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39,351
ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
515	Assembly of Multicomponent Protein Films by Means of Electrostatic Layer-by-Layer Adsorption. <i>Journal of the American Chemical Society</i> , 1995 , 117, 6117-6123	16.4	1254
514	Layer-by-layer assembly as a versatile bottom-up nanofabrication technique for exploratory research and realistic application. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 2319-40	3.6	1040
513	Layer-by-layer Nanoarchitectonics: Invention, Innovation, and Evolution. <i>Chemistry Letters</i> , 2014 , 43, 36-68	1.7	761
512	A new family of carbon materials: synthesis of MOF-derived nanoporous carbons and their promising applications. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 14-19	13	670
511	Challenges and breakthroughs in recent research on self-assembly. <i>Science and Technology of Advanced Materials</i> , 2008 , 9, 014109	7.1	645
510	Nanoarchitectonics for Mesoporous Materials. <i>Bulletin of the Chemical Society of Japan</i> , 2012 , 85, 1-32	5.1	602
509	Nanoporous carbons through direct carbonization of a zeolitic imidazolate framework for supercapacitor electrodes. <i>Chemical Communications</i> , 2012 , 48, 7259-61	5.8	559
508	Direct carbonization of Al-based porous coordination polymer for synthesis of nanoporous carbon. <i>Journal of the American Chemical Society</i> , 2012 , 134, 2864-7	16.4	538
507	Direct synthesis of MOF-derived nanoporous carbon with magnetic Co nanoparticles toward efficient water treatment. <i>Small</i> , 2014 , 10, 2096-107	11	505
506	Templated Synthesis for Nanoarchitected Porous Materials. <i>Bulletin of the Chemical Society of Japan</i> , 2015 , 88, 1171-1200	5.1	479
505	Assembling Alternate Dye/Polyion Molecular Films by Electrostatic Layer-by-Layer Adsorption. <i>Journal of the American Chemical Society</i> , 1997 , 119, 2224-2231	16.4	457
504	Alternate Assembly of Ordered Multilayers of SiO ₂ and Other Nanoparticles and Polyions. <i>Langmuir</i> , 1997 , 13, 6195-6203	4	403
503	Layer-by-layer self-assembled shells for drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2011 , 63, 762-71	18.5	376
502	Molecular Recognition at Air/Water and Related Interfaces: Complementary Hydrogen Bonding and Multisite Interaction. <i>Accounts of Chemical Research</i> , 1998 , 31, 371-378	24.3	375
501	Nanoarchitectonics for Dynamic Functional Materials from Atomic-/Molecular-Level Manipulation to Macroscopic Action. <i>Advanced Materials</i> , 2016 , 28, 1251-86	24	373
500	Mechanical control of nanomaterials and nanosystems. <i>Advanced Materials</i> , 2012 , 24, 158-76	24	353
499	25th anniversary article: what can be done with the Langmuir-Blodgett method? Recent developments and its critical role in materials science. <i>Advanced Materials</i> , 2013 , 25, 6477-512	24	345

498	Enzyme nanoarchitectonics: organization and device application. <i>Chemical Society Reviews</i> , 2013 , 42, 6322-45	58.5	330
497	Two-Dimensional (2D) Nanomaterials towards Electrochemical Nanoarchitectonics in Energy-Related Applications. <i>Bulletin of the Chemical Society of Japan</i> , 2017 , 90, 627-648	5.1	321
496	Molecular recognition: from solution science to nano/materials technology. <i>Chemical Society Reviews</i> , 2012 , 41, 5800-35	58.5	321
495	Forming nanomaterials as layered functional structures toward materials nanoarchitectonics. <i>NPG Asia Materials</i> , 2012 , 4, e17-e17	10.3	305
494	Gold nanoparticles embedded in a mesoporous carbon nitride stabilizer for highly efficient three-component coupling reaction. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5961-5	16.4	301
493	Layer-by-layer films of graphene and ionic liquids for highly selective gas sensing. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 9737-9	16.4	276
492	Nanoarchitectonics: a conceptual paradigm for design and synthesis of dimension-controlled functional nanomaterials. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 1-13	1.3	272
491	Amphiphile nanoarchitectonics: from basic physical chemistry to advanced applications. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 10580-611	3.6	268
490	Porphyrin-based sensor nanoarchitectonics in diverse physical detection modes. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 9713-46	3.6	265
489	Redox-Active Polymers for Energy Storage Nanoarchitectonics. <i>Joule</i> , 2017 , 1, 739-768	27.8	263
488	Advances in biomimetic and nanostructured biohybrid materials. <i>Advanced Materials</i> , 2010 , 22, 323-36	24	251
487	Electrochemical nanoarchitectonics and layer-by-layer assembly: From basics to future. <i>Nano Today</i> , 2015 , 10, 138-167	17.9	238
486	Chemistry Can Make Strict and Fuzzy Controls for Bio-Systems: DNA Nanoarchitectonics and Cell-Macromolecular Nanoarchitectonics. <i>Bulletin of the Chemical Society of Japan</i> , 2017 , 90, 967-1004	5.1	232
485	Synthesis of nanoporous carbon-cobalt-oxide hybrid electrocatalysts by thermal conversion of metal-organic frameworks. <i>Chemistry - A European Journal</i> , 2014 , 20, 4217-21	4.8	226
484	Sequential actions of glucose oxidase and peroxidase in molecular films assembled by layer-by-layer alternate adsorption. <i>Biotechnology and Bioengineering</i> , 1996 , 51, 163-7	4.9	224
483	Natural tubule clay template synthesis of silver nanorods for antibacterial composite coating. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 4040-6	9.5	214
482	Bioactive nanocarbon assemblies: Nanoarchitectonics and applications. <i>Nano Today</i> , 2014 , 9, 378-394	17.9	210
481	Nanoarchitectonics: a new materials horizon for nanotechnology. <i>Materials Horizons</i> , 2015 , 2, 406-413	14.4	210

480	A careful examination of the adsorption step in the alternate layer-by-layer assembly of linear polyanion and polycation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999 , 146, 337-346	5.1	208
479	Self-assembly as a key player for materials nanoarchitectonics. <i>Science and Technology of Advanced Materials</i> , 2019 , 20, 51-95	7.1	204
478	Molecular Recognition of Nucleotides by the Guanidinium Unit at the Surface of Aqueous Micelles and Bilayers. A Comparison of Microscopic and Macroscopic Interfaces. <i>Journal of the American Chemical Society</i> , 1996 , 118, 8524-8530	16.4	203
477	Directing Assembly and Disassembly of 2D MoS Nanosheets with DNA for Drug Delivery. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 15286-15296	9.5	199
476	Inorganic Nanoarchitectonics for Biological Applications. <i>Chemistry of Materials</i> , 2012 , 24, 728-737	9.6	195
475	Regulation of β Sheet Structures within Amyloid-Like β Sheet Assemblage from Tripeptide Derivatives. <i>Journal of the American Chemical Society</i> , 1998 , 120, 12192-12199	16.4	194
474	Layered paving of vesicular nanoparticles formed with cerasome as a bioinspired organic-inorganic hybrid. <i>Journal of the American Chemical Society</i> , 2002 , 124, 7892-3	16.4	193
473	The Way to Nanoarchitectonics and the Way of Nanoarchitectonics. <i>Advanced Materials</i> , 2016 , 28, 989-924		192
472	Soft Langmuir-Blodgett Technique for Hard Nanomaterials. <i>Advanced Materials</i> , 2009 , 21, 2959-2981	24	190
471	Fullerene nanoarchitectonics: from zero to higher dimensions. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 1662-79	4.59	182
470	Preparation of Highly Ordered Nitrogen-Containing Mesoporous Carbon from a Gelatin Biomolecule and its Excellent Sensing of Acetic Acid. <i>Advanced Functional Materials</i> , 2012 , 22, 3596-3604	15.6	177
469	Sequential reaction and product separation on molecular films of glucoamylase and glucose oxidase assembled on an ultrafilter. <i>Journal of Bioscience and Bioengineering</i> , 1996 , 82, 502-506		174
468	Solvent engineering for shape-shifter pure fullerene (C60). <i>Journal of the American Chemical Society</i> , 2009 , 131, 6372-3	16.4	173
467	Activity and stability of glucose oxidase in molecular films assembled alternately with polyions. <i>Journal of Bioscience and Bioengineering</i> , 1999 , 87, 69-75	3.3	170
466	Coordination chemistry and supramolecular chemistry in mesoporous nanospace. <i>Coordination Chemistry Reviews</i> , 2007 , 251, 2562-2591	23.2	167
465	Molecular Imprinting: Materials Nanoarchitectonics with Molecular Information. <i>Bulletin of the Chemical Society of Japan</i> , 2018 , 91, 1075-1111	5.1	165
464	What are the emerging concepts and challenges in NANO? Nanoarchitectonics, hand-operating nanotechnology and mechanobiology. <i>Polymer Journal</i> , 2016 , 48, 371-389	2.7	161
463	Mechanical control of enantioselectivity of amino acid recognition by cholesterol-armed cyclen monolayer at the air-water interface. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14478-9	16.4	159

462	Layer-by-Layer Assembly of Alternate Protein/Polyion Ultrathin Films. <i>Chemistry Letters</i> , 1994 , 23, 2323-2326	152
461	Hierarchical supramolecular fullerene architectures with controlled dimensionality. <i>Chemical Communications</i> , 2005 , 5982-4	5.8 151
460	Thin-film-based nanoarchitectures for soft matter: controlled assemblies into two-dimensional worlds. <i>Small</i> , 2011 , 7, 1288-308	11 150
459	MOF-derived Nanoporous Carbon as Intracellular Drug Delivery Carriers. <i>Chemistry Letters</i> , 2014 , 43, 717-719	1.7 149
458	All-metal layer-by-layer films: bimetallic alternate layers with accessible mesopores for enhanced electrocatalysis. <i>Journal of the American Chemical Society</i> , 2012 , 134, 10819-21	16.4 148
457	Materials nanoarchitectonics for environmental remediation and sensing. <i>Journal of Materials Chemistry</i> , 2012 , 22, 2369-2377	147
456	Catalytic nanoarchitectonics for environmentally compatible energy generation. <i>Materials Today</i> , 2016 , 19, 12-18	21.8 145
455	Steric hindrance-enforced distortion as a general strategy for the design of fluorescence "turn-on" cyanide probes. <i>Chemical Communications</i> , 2013 , 49, 10136-8	5.8 142
454	Two-dimensional nanoarchitectonics based on self-assembly. <i>Advances in Colloid and Interface Science</i> , 2010 , 154, 20-9	14.3 141
453	Synthesis of Monocrystalline Nanoframes of Prussian Blue Analogues by Controlled Preferential Etching. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8228-34	16.4 138
452	Large pore cage type mesoporous carbon, carbon nanocage: a superior adsorbent for biomaterials. <i>Journal of Materials Chemistry</i> , 2005 , 15, 5122	136
451	Photocatalytic water splitting under visible light by mixed-valence Sn(3)O(4). <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3790-3	9.5 135
450	Stimuli-free auto-modulated material release from mesoporous nanocompartment films. <i>Journal of the American Chemical Society</i> , 2008 , 130, 2376-7	16.4 135
449	Polymeric micelle assembly for preparation of large-sized mesoporous metal oxides with various compositions. <i>Langmuir</i> , 2014 , 30, 651-9	4 132
448	A condensable amphiphile with a cleavable tail as a "Lizard" template for the sol-gel synthesis of functionalized mesoporous silica. <i>Journal of the American Chemical Society</i> , 2004 , 126, 988-9	16.4 132
447	Electrochemical-coupling layer-by-layer (ECC-LbL) assembly. <i>Journal of the American Chemical Society</i> , 2011 , 133, 7348-51	16.4 131
446	Layer-by-layer films of dual-pore carbon capsules with designable selectivity of gas adsorption. <i>Journal of the American Chemical Society</i> , 2009 , 131, 4220-1	16.4 131
445	One-pot separation of tea components through selective adsorption on pore-engineered nanocarbon, carbon nanocage. <i>Journal of the American Chemical Society</i> , 2007 , 129, 11022-3	16.4 130

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- 438 Fullerene crystals with bimodal pore architectures consisting of macropores and mesopores. *Journal of the American Chemical Society*, **2013**, 135, 586-9 16.4 125
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- 429 Immobilization of biomaterials to nano-assembled films (self-assembled monolayers, Langmuir-Blodgett films, and layer-by-layer assemblies) and their related functions. *Journal of Nanoscience and Nanotechnology*, **2006**, 6, 2278-301 1.3 111
- 428 Layer-by-Layer Self-Assembling of Liposomal Nanohybrid "Cerasome" on Substrates. *Langmuir*, **2002**, 18, 6709-6711 4 111
- 427 Layer-by-layer architectures of concanavalin A by means of electrostatic and biospecific interactions. *Journal of the Chemical Society Chemical Communications*, **1995**, 2313 109

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425	Soft 2D nanoarchitectonics. <i>NPG Asia Materials</i> , 2018 , 10, 90-106	10.3	105
424	Mechanical tuning of molecular recognition to discriminate the single-methyl-group difference between thymine and uracil. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12868-70	16.4	105
423	Preparation of Organic-Inorganic Hybrid Vesicle (Liposome) Derived from Artificial Lipid with Alkoxysilyl Head. <i>Chemistry Letters</i> , 1999 , 28, 661-662	1.7	105
422	Putting the 'N' in ACENE: pyrazinacenes and their structural relatives. <i>Organic and Biomolecular Chemistry</i> , 2011 , 9, 5005-17	3.9	104
421	Biomaterials and biofunctionality in layered macromolecular assemblies. <i>Macromolecular Bioscience</i> , 2008 , 8, 981-90	5.5	104
420	Highly Ordered 1D Fullerene Crystals for Concurrent Control of Macroscopic Cellular Orientation and Differentiation toward Large-Scale Tissue Engineering. <i>Advanced Materials</i> , 2015 , 27, 4020-6	24	101
419	A graphene-polyurethane composite hydrogel as a potential bioink for 3D bioprinting and differentiation of neural stem cells. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 8854-8864	7.3	100
418	Layer-by-layer assembly for drug delivery and related applications. <i>Expert Opinion on Drug Delivery</i> , 2011 , 8, 633-44	8	100
417	Molecular Recognition of Aqueous Dipeptides at Multiple Hydrogen-Bonding Sites of Mixed Peptide Monolayers. <i>Journal of the American Chemical Society</i> , 1996 , 118, 9545-9551	16.4	100
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415	Carbon nanocage: a large-pore cage-type mesoporous carbon material as an adsorbent for biomolecules. <i>Journal of Porous Materials</i> , 2006 , 13, 379-383	2.4	97
414	Nanoporous carbon tubes from fullerene crystals as the electron carbon source. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 951-5	16.4	96
413	Nanoarchitectonics for carbon-material-based sensors. <i>Analyst</i> , 2016 , 141, 2629-38	5	91
412	Vortex-aligned fullerene nanowhiskers as a scaffold for orienting cell growth. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 15667-73	9.5	90
411	Langmuir Nanoarchitectonics from Basic to Frontier. <i>Langmuir</i> , 2019 , 35, 3585-3599	4	90
410	Block-copolymer-nanowires with nanosized domain segregation and high charge mobilities as stacked p/n heterojunction arrays for repeatable photocurrent switching. <i>Journal of the American Chemical Society</i> , 2009 , 131, 18030-1	16.4	90
409	Formation of metal clusters in halloysite clay nanotubes. <i>Science and Technology of Advanced Materials</i> , 2017 , 18, 147-151	7.1	89

408	Molecular Recognition of Aqueous Dipeptides by Noncovalently Aligned Oligoglycine Units at the Air/Water Interface. <i>Journal of the American Chemical Society</i> , 1995 , 117, 11833-11838	16.4	89
407	NMR spectroscopic detection of chirality and enantiopurity in referenced systems without formation of diastereomers. <i>Nature Communications</i> , 2013 , 4, 2188	17.4	88
406	Mechanochemical Tuning of the Binaphthyl Conformation at the Air-Water Interface. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 8988-91	16.4	86
405	Open-mouthed metallic microcapsules: exploring performance improvements at agglomeration-free interiors. <i>Journal of the American Chemical Society</i> , 2010 , 132, 14415-7	16.4	86
404	Layer-by-Layer Assembly: Recent Progress from Layered Assemblies to Layered Nanoarchitectonics. <i>Chemistry - an Asian Journal</i> , 2019 , 14, 2553-2566	4.5	85
403	Anion-complexation-induced stabilization of charge separation. <i>Journal of the American Chemical Society</i> , 2009 , 131, 16138-46	16.4	85
402	Self-Construction from 2D to 3D: One-Pot Layer-by-Layer Assembly of Graphene Oxide Sheets Held Together by Coordination Polymers. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8426-30	16.4	84
401	Highly crystalline and conductive nitrogen-doped mesoporous carbon with graphitic walls and its electrochemical performance. <i>Chemistry - A European Journal</i> , 2011 , 17, 3390-7	4.8	83
400	Theoretical Study of Intermolecular Interaction at the Lipid/Water Interface. 2. Analysis Based on the Poisson-Boltzmann Equation. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 4817-4825	3.4	83
399	Enzyme-Encapsulated Layer-by-Layer Assemblies: Current Status and Challenges Toward Ultimate Nanodevices. <i>Advances in Polymer Science</i> , 2010 , 51-87	1.3	82
398	Superstructures and superhydrophobic property in hierarchical organized architectures of fullerenes bearing long alkyl tails. <i>Journal of Materials Chemistry</i> , 2010 , 20, 1253-1260		82
397	A bottom-up approach toward fabrication of ultrathin PbS sheets. <i>Nano Letters</i> , 2013 , 13, 409-15	11.5	81
396	Molecular Patterning of a Guanidinium/Orotate Mixed Monolayer through Molecular Recognition with Flavin Adenine Dinucleotide. <i>Langmuir</i> , 1997 , 13, 519-524	4	81
395	Assemblies of biomaterials in mesoporous media. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 1510-32	1.3	80
394	Hierarchic Nanostructure for Auto-Modulation of Material Release: Mesoporous Nanocompartment Films. <i>Advanced Functional Materials</i> , 2009 , 19, 1792-1799	15.6	79
393	Nanoarchitectonics beyond Self-Assembly: Challenges to Create Bio-Like Hierarchic Organization. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15424-15446	16.4	78
392	Tunable, functional carbon spheres derived from rapid synthesis of resorcinol-formaldehyde resins. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 10649-55	9.5	78
391	Bridging the Difference to the Billionth-of-a-Meter Length Scale: How to Operate Nanoscopic Machines and Nanomaterials by Using Macroscopic Actions. <i>Chemistry of Materials</i> , 2014 , 26, 519-532	9.6	77

390	Aligned 1-D nanorods of a gelator exhibit molecular orientation and excitation energy transport different from entangled fiber networks. <i>Journal of the American Chemical Society</i> , 2014 , 136, 8548-51	16.4	77
389	Don't Forget Langmuir-Blodgett Films 2020: Interfacial Nanoarchitectonics with Molecules, Materials, and Living Objects. <i>Langmuir</i> , 2020 , 36, 7158-7180	4	76
388	Supramolecular Chiral Nanoarchitectonics. <i>Advanced Materials</i> , 2020 , 32, e1905657	24	76
387	Chiral sensing by nonchiral tetrapyrroles. <i>Accounts of Chemical Research</i> , 2015 , 48, 521-9	24.3	76
386	Self-assembled microstructures of functional molecules. <i>Current Opinion in Colloid and Interface Science</i> , 2007 , 12, 106-120	7.6	76
385	Supramolecular Differentiation for Construction of Anisotropic Fullerene Nanostructures by Time-Programmed Control of Interfacial Growth. <i>ACS Nano</i> , 2016 , 10, 8796-802	16.7	75
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383	Coordination nanoarchitectonics at interfaces between supramolecular and materials chemistry. <i>Coordination Chemistry Reviews</i> , 2016 , 320-321, 139-152	23.2	74
382	Nanoarchitectonics: what's coming next after nanotechnology?. <i>Nanoscale Horizons</i> , 2021 , 6, 364-378	10.8	73
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- 363 Activated interiors of clay nanotubes for agglomeration-tolerant automotive exhaust remediation. *Journal of Materials Chemistry A*, **2015**, 3, 6614-6619 13 63
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