

Ashutosh Sharma

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.

337
papers

13,845
citations

64
h-index

94
g-index

339
ext. papers

14,860
ext. citations

5.6
avg, IF

6.87
L-index

#	Paper	IF	Citations
337	Versatile Graphitized Carbon Nanofibers in Energy Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2022 , 10, 1334-1360	8.3	2
336	Fabrication and Characterization of Porous Poly(dimethylsiloxane) (PDMS) Adhesives. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 130-140	4.3	2
335	Ammonolysis synthesis of nickel molybdenum nitride nanostructures for high-performance asymmetric supercapacitors. <i>New Journal of Chemistry</i> , 2020 , 44, 14067-14074	3.6	5
334	110th Anniversary: Particle Size Effect on Enhanced Graphitization and Electrical Conductivity of Suspended Gold/Carbon Composite Nanofibers. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 1944-1952	3.9	7
333	Making Nonsticky Surfaces of Sticky Materials: Self-Organized Microtexturing of Viscoelastic Elastomeric Layers by Tearing. <i>Langmuir</i> , 2018 , 34, 3767-3774	4	
332	Electric field mediated elastic contact lithography of thin viscoelastic films for miniaturized and multiscale patterns. <i>Soft Matter</i> , 2018 , 14, 3963-3977	3.6	3
331	Highly Sensitive Non-Enzymatic Glucose Detection Using 3-D Ni ₃ (VO ₄) ₂ Nanosheet Arrays Directly Grown on Ni Foam. <i>Journal of the Electrochemical Society</i> , 2018 , 165, B1-B8	3.9	14
330	Porous indium oxide hollow spheres (PIOHS) for asymmetric electrochemical supercapacitor with excellent cycling stability. <i>Electrochimica Acta</i> , 2018 , 270, 87-95	6.7	16
329	Free-standing Ni ₃ (VO ₄) ₂ nanosheet arrays on aminated r-GO sheets for supercapacitor applications. <i>New Journal of Chemistry</i> , 2018 , 42, 1243-1249	3.6	16
328	Morphologically tailored activated carbon derived from waste tires as high-performance anode for Li-ion battery. <i>Journal of Applied Electrochemistry</i> , 2018 , 48, 1-13	2.6	28
327	Infrared microlenses and gratings of chalcogenide: confined self-organization in solution processed thin liquid films.. <i>RSC Advances</i> , 2018 , 8, 27946-27955	3.7	7
326	Tire Waste Derived Turbostratic Carbon as an Electrode for a Vanadium Redox Flow Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 8238-8246	8.3	21
325	Graphitic carbon coupled poly(anthraquinone) for proton shuttle flow-in-a-cell application. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 8447-8456	3.6	3
324	Highly sensitive porous carbon and metal/carbon conducting nanofiber based enzymatic biosensors for triglyceride detection. <i>Sensors and Actuators B: Chemical</i> , 2017 , 246, 202-214	8.5	52
323	Hydrothermally Synthesized Reduced Graphene Oxide-NiWO ₄ Nanocomposite for Lithium-Ion Battery Anode. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A785-A795	3.9	17
322	Cavity shape transformation during peeling on elastic microchannel-patterned substrates filled with a viscous liquid. <i>Soft Matter</i> , 2017 , 13, 2394-2401	3.6	3
321	Template-free synthesis of hollow Li ₂ O@Fe ₂ O ₃ @Ag heterostructures for ultra-high performance Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14220-14229	13	19

320	Fe ₃ O ₄ Nanoparticles Embedded Hollow Mesoporous Carbon Nanofibers and Polydimethylsiloxane-Based Nanocomposites as Efficient Microwave Absorber. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 7810-7820	3.8	57
319	Structurally stable hollow mesoporous graphitized carbon nanofibers embedded with NiMoO ₄ nanoparticles for high performance asymmetric supercapacitors. <i>Electrochimica Acta</i> , 2017 , 238, 337-348	6.7	60
318	In situ integration of graphene foam-titanium nitride based bio-scaffolds and microfluidic structures for soil nutrient sensors. <i>Lab on A Chip</i> , 2017 , 17, 274-285	7.2	44
317	Highly Sensitive Surface-Enhanced Raman Scattering (SERS)- Based Multi Gas Sensor : Au Nanoparticles Decorated on Partially Embedded 2D Colloidal Crystals into Elastomer. <i>ChemistrySelect</i> , 2017 , 2, 6961-6969	1.8	5
316	Nickel tungstate-graphene nanocomposite for simultaneous electrochemical detection of heavy metal ions with application to complex aqueous media. <i>RSC Advances</i> , 2017 , 7, 42146-42158	3.7	38
315	Microporous Nanocomposite Enabled Microfluidic Biochip for Cardiac Biomarker Detection. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 33576-33588	9.5	43
314	Direct Intranuclear Anticancer Drug Delivery via Polydimethylsiloxane Nanoparticles: in Vitro and in Vivo Xenograft Studies. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 34625-34633	9.5	10
313	Structurally Stable Mesoporous Hierarchical NiMoO ₄ Hollow Nanofibers for Asymmetric Supercapacitors with Enhanced Capacity and Improved Cycling Stability. <i>ChemElectroChem</i> , 2017 , 4, 3331-3339 ²³	4.3	23
312	Dual Functional Ta-Doped Electrospun TiO ₂ Nanofibers with Enhanced Photocatalysis and SERS Detection for Organic Compounds. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 28495-28507	9.5	111
311	Giant Slip Induced Anomalous Dewetting of an Ultrathin Film on a Viscous Sublayer. <i>Scientific Reports</i> , 2017 , 7, 14776	4.9	2
310	ZnO Nanoparticle Fortified Highly Permeable Carbon/Silica Monoliths as a Flow-Through Media. <i>Langmuir</i> , 2017 , 33, 7692-7700	4	5
309	Programmable Nanopatterns by Controlled Debonding of Soft Elastic Films. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19409-19416	9.5	15
308	Multifunctional Mesoporous Carbon Capsules and their Robust Coatings for Encapsulation of Actives: Antimicrobial and Anti-bioadhesion Functions. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 19371-19379	9.5	18
307	Recent advances in the synthesis and application of photocatalytic metal-metal oxide core-shell nanoparticles for environmental remediation and their recycling process. <i>RSC Advances</i> , 2016 , 6, 83589-83612 ¹²⁴	3.7	124
306	Recent advances in electrospun metal-oxide nanofiber based interfaces for electrochemical biosensing. <i>RSC Advances</i> , 2016 , 6, 94595-94616	3.7	92
305	Micropatterned arrays of functional materials by self-organized dewetting of ultrathin polymer films combined with electrodeposition. <i>RSC Advances</i> , 2016 , 6, 73176-73185	3.7	1
304	Microfluidic Immuno-Biochip for Detection of Breast Cancer Biomarkers Using Hierarchical Composite of Porous Graphene and Titanium Dioxide Nanofibers. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20570-82	9.5	123
303	Metal-Oxide Decorated Multilayered Three-Dimensional (3D) Porous Carbon Thin Films for Supercapacitor Electrodes. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 12569-12581	3.9	25

302	Facile Synthesis of Hierarchical Porous Carbon Monolith: A Free-Standing Anode for Li-Ion Battery with Enhanced Electrochemical Performance. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 11818-11828	3.9	12
301	Li-ion storage in morphology tailored porous hollow Cu ₂ O nanospheres fabricated by Ostwald ripening. <i>RSC Advances</i> , 2016 , 6, 105231-105238	3.7	8
300	Impact of graphene oxide on the magnetorheological behaviour of BaFe ₁₂ O ₁₉ nanoparticles filled polyacrylamide hydrogel. <i>Polymer</i> , 2016 , 97, 258-272	3.9	19
299	In-situ electrosynthesized nanostructured Mn ₃ O ₄ -polyaniline nanofibers- biointerface for endocrine disrupting chemical detection. <i>Sensors and Actuators B: Chemical</i> , 2016 , 236, 781-793	8.5	16
298	Mesoporous Carbon Nanocapsules Based Coatings with Multifunctionalities. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500708	4.6	7
297	Electrospun functional micro/nanochannels embedded in porous carbon electrodes for microfluidic biosensing. <i>Sensors and Actuators B: Chemical</i> , 2016 , 229, 82-91	8.5	36
296	One-step sol-gel synthesis of hierarchically porous, flow-through carbon/silica monoliths. <i>RSC Advances</i> , 2016 , 6, 12298-12310	3.7	16
295	PEGylated Carbon Nanocapsule: A Universal Reactor and Carrier for In Vivo Delivery of Hydrophobic and Hydrophilic Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 350-62	9.5	22
294	Carbon aerogels through organo-inorganic co-assembly and their application in water desalination by capacitive deionization. <i>Carbon</i> , 2016 , 99, 375-383	10.4	107
293	High Performance Supercapacitors from Novel Metal-Doped Ceria-Decorated Aminated Graphene. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 3107-3116	3.8	67
292	Mesoporous Few-Layer Graphene Platform for Affinity Biosensing Application. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7646-56	9.5	41
291	Facile synthesis of Cu ₂ O microstructures and their morphology dependent electrochemical supercapacitor properties. <i>RSC Advances</i> , 2016 , 6, 3815-3822	3.7	69
290	PEDOT:PSS/PVA-Nanofibers-Decorated Conducting Paper for Cancer Diagnostics. <i>Advanced Materials Technologies</i> , 2016 , 1, 1600056	6.8	31
289	Enhanced electrical conductivity of suspended carbon nanofibers: Effect of hollow structure and improved graphitization. <i>Carbon</i> , 2016 , 108, 135-145	10.4	22
288	Facile reduction of para-nitrophenols: catalytic efficiency of silver nanofibers in batch and continuous flow reactors. <i>RSC Advances</i> , 2016 , 6, 113981-113990	3.7	12
287	3D urchin-shaped Ni ₃ (VO ₄) ₂ hollow nanospheres for high-performance asymmetric supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9822-9831	13	85
286	Quantum dot sensitized electrospun mesoporous titanium dioxide hollow nanofibers for photocatalytic applications. <i>RSC Advances</i> , 2016 , 6, 48109-48119	3.7	59
285	One-Step Fabrication of Microchannels Lined with a Metal Oxide Coating. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10494-8	9.5	3

284	Influence of the mutable kinetic parameters on the adhesion and debonding of thin viscoelastic films. <i>Journal of Colloid and Interface Science</i> , 2016 , 477, 109-22	9.3	9
283	Free-standing NiV2S4 nanosheet arrays on a 3D Ni framework via an anion exchange reaction as a novel electrode for asymmetric supercapacitor applications. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17512-17520	13	42
282	Free standing hollow carbon nanofiber mats for supercapacitor electrodes. <i>RSC Advances</i> , 2016 , 6, 78528-78532	9.7	12
281	A polyaniline wrapped aminated graphene composite on nickel foam as three-dimensional electrodes for enzymatic microfuel cells. <i>RSC Advances</i> , 2016 , 6, 73496-73505	3.7	5
280	Nongassing long-lasting electro-osmotic pump with polyaniline-wrapped aminated graphene electrodes. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 593-601	9.5	32
279	Electroosmotic Flow in Cell Built with Electrodes Having Two Redox Couples. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 10183-10189	3.9	7
278	Multi walled carbon nanotube and polyaniline coated pencil graphite based bio-cathode for enzymatic biofuel cell. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 9515-9522	6.7	24
277	Solvent-vapor-assisted dewetting of prepatterned thin polymer films: control of morphology, order, and pattern miniaturization. <i>Langmuir</i> , 2015 , 31, 3203-14	4	28
276	Self-organized morphological evolution and dewetting in solvent vapor annealing of spin coated polymer blend nanostructures. <i>Journal of Colloid and Interface Science</i> , 2015 , 449, 215-25	9.3	12
275	Regimes during liquid drop impact on a liquid pool. <i>Journal of Fluid Mechanics</i> , 2015 , 768, 492-523	3.7	81
274	Superhydrophobic polymethylsilsequioxane pinned one dimensional ZnO nanostructures for water remediation through photo-catalysis. <i>RSC Advances</i> , 2015 , 5, 45897-45907	3.7	26
273	Luminescent, ferromagnetic silver glyconanoparticles: synthesis to annealing-induced substrate specific transformation. <i>RSC Advances</i> , 2015 , 5, 28901-28907	3.7	5
272	Enzyme immobilization on microelectrode arrays of CNT/Nafion nanocomposites fabricated using hydrogel microstencils. <i>Microelectronic Engineering</i> , 2015 , 141, 193-197	2.5	10
271	Control of Morphologies and Length Scales in Intensified Dewetting of Electron Beam Modified Polymer Thin Films under a Liquid Solvent Mixture. <i>Macromolecules</i> , 2015 , 48, 3318-3326	5.5	16
270	Fabrication of Vertically aligned Copper Nanotubes as a Novel Electrode for Enzymatic Biofuel Cells. <i>Electrochimica Acta</i> , 2015 , 167, 213-218	6.7	15
269	Enhanced Electrochemical Performance of Electrospun Ag/Hollow Glassy Carbon Nanofibers as Free-standing Li-ion Battery Anode. <i>Electrochimica Acta</i> , 2015 , 176, 1266-1271	6.7	14
268	Instability, self-organization and pattern formation in thin soft films. <i>Soft Matter</i> , 2015 , 11, 8717-40	3.6	98
267	Long term biopotential recording by body conformable photolithography fabricated low cost polymeric microneedle arrays. <i>Sensors and Actuators A: Physical</i> , 2015 , 236, 164-172	3.9	23

266	Direct Immersion Annealing of Thin Block Copolymer Films. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21639-45	9.5	39
265	Vertical electric field induced bacterial growth inactivation on amorphous carbon electrodes. <i>Carbon</i> , 2015 , 81, 193-202	10.4	14
264	Exceptionally robust and conductive superhydrophobic free-standing films of mesoporous carbon nanocapsule/polymer composite for multifunctional applications. <i>Carbon</i> , 2015 , 93, 492-501	10.4	30
263	Anti-epidermal growth factor receptor conjugated mesoporous zinc oxide nanofibers for breast cancer diagnostics. <i>Nanoscale</i> , 2015 , 7, 7234-45	7.7	87
262	Hierarchical Micro/Nano Structures by Combined Self-Organized Dewetting and Photopatterning of Photoresist Thin Films. <i>Langmuir</i> , 2015 , 31, 12505-11	4	9
261	Novel Cu ²⁺ /carbon nanofiber composites for the counter electrodes of dye-sensitized solar cells. <i>International Journal of Energy Research</i> , 2015 , 39, 668-680	4.5	18
260	Superior elastomeric nanocomposites with electrospun nanofibers and nanoparticles of CoFe ₂ O ₄ for magnetorheological applications. <i>RSC Advances</i> , 2015 , 5, 19091-19105	3.7	19
259	Electrospun hollow glassy carbon reduced graphene oxide nanofibers with encapsulated ZnO nanoparticles: a free standing anode for Li-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 5344-5351	13.5	75
258	Synthesis of phenolic precursor-based porous carbon beads in situ dispersed with copper-silver bimetal nanoparticles for antibacterial applications. <i>Journal of Colloid and Interface Science</i> , 2014 , 418, 216-24	9.3	29
257	Functionalization of track-etched poly (ethylene terephthalate) membranes as a selective filter for hydrogen purification. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 9356-9365	6.7	21
256	An efficient antibacterial multi-scale web of carbon fibers with asymmetrically dispersed Ag ₂ S/Cu bimetal nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 443, 311-319	3.5	28
255	Application of electrochemical impedance spectroscopy in bio-fuel cell characterization: A review. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 20159-20170	6.7	63
254	Highly sensitive biofunctionalized mesoporous electrospun TiO ₂ (2) nanofiber based interface for biosensing. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2516-27	9.5	109
253	Magnetorheology of Polydimethylsiloxane Elastomer/FeCo ₃ Nanocomposite. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 25684-25703	3.8	38
252	A surface functionalized nanoporous titania integrated microfluidic biochip. <i>Nanoscale</i> , 2014 , 6, 13958-69.7	6.7	28
251	Low voltage non-gassing electro-osmotic pump with zeta potential tuned aluminosilicate frits and organic dye electrodes. <i>RSC Advances</i> , 2014 , 4, 28814-28821	3.7	14
250	Charge Leakage Mediated Pattern Miniaturization in the Electric Field Induced Instabilities of an Elastic Membrane. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 18840-18851	3.9	2
249	Domain growth of carbon nanotubes assisted by dewetting of thin catalyst precursor films. <i>Applied Surface Science</i> , 2014 , 288, 215-221	6.7	4

248	Templated Electrochemical Synthesis of Polyaniline/ZnO Coaxial Nanowires with Enhanced Photoluminescence. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 18884-18890	3.9	17
247	Unusual dewetting of thin polymer films in liquid media containing a poor solvent and a nonsolvent. <i>Langmuir</i> , 2014 , 30, 14808-16	4	11
246	Photocatalytic Degradation of Naphthalene by Electrospun Mesoporous Carbon-Doped Anatase TiO ₂ Nanofiber Mats. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 18900-18909	3.9	59
245	Tuning of structural, optical, and magnetic properties of ultrathin and thin ZnO nanowire arrays for nano device applications. <i>Nanoscale Research Letters</i> , 2014 , 9, 122	5	28
244	Large area IR microlens arrays of chalcogenide glass photoresists by grayscale maskless lithography. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 7094-100	9.5	23
243	Long-wave interfacial instabilities in a thin electrolyte film undergoing coupled electrokinetic flows: a nonlinear analysis. <i>Microfluidics and Nanofluidics</i> , 2013 , 15, 19-33	2.8	10
242	Cytotoxic Evaluation of the Hierarchical Web of Carbon Micronanofibers. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 4672-4682	3.9	50
241	Patterned growth and differentiation of neural cells on polymer derived carbon substrates with micro/nano structures in vitro. <i>Carbon</i> , 2013 , 65, 140-155	10.4	32
240	In vitro cytocompatibility assessment of amorphous carbon structures using neuroblastoma and Schwann cells. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013 , 101, 520-31	3.5	26
239	Vertical electric field stimulated neural cell functionality on porous amorphous carbon electrodes. <i>Biomaterials</i> , 2013 , 34, 9252-63	15.6	38
238	Development of bimetal-grown multi-scale carbon micro-nanofibers as an immobilizing matrix for enzymes in biosensor applications. <i>Materials Science and Engineering C</i> , 2013 , 33, 4313-22	8.3	14
237	Self-organized macroporous thin carbon films for supported metal catalysis. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013 , 427, 83-94	5.1	23
236	PZTBDMS composite for active damping of vibrations. <i>Composites Science and Technology</i> , 2013 , 77, 42-51	8.6	37
235	Intracellular reactive oxidative stress, cell proliferation and apoptosis of Schwann cells on carbon nanofibrous substrates. <i>Biomaterials</i> , 2013 , 34, 4891-901	15.6	33
234	Scaffolds for bone tissue engineering: role of surface patterning on osteoblast response. <i>RSC Advances</i> , 2013 , 3, 11073	3.7	76
233	Carbon nanofibers containing metal-doped porous carbon beads for environmental remediation applications. <i>Chemical Engineering Journal</i> , 2013 , 229, 72-81	14.7	33
232	Photoluminescent electrospun submicron fibers of hybrid organosiloxane and derived silica. <i>RSC Advances</i> , 2013 , 3, 7591	3.7	15
231	Fabrication of polymer-modified monodisperse mesoporous carbon particles by template-based approach for drug delivery. <i>RSC Advances</i> , 2013 , 3, 2008-2016	3.7	16

230	CLSVOF method to study consecutive drop impact on liquid pool. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2013 , 23, 143-158	4.5	32
229	TiO ₂ -nanoparticles-impregnated photocatalytic macroporous carbon films by spin coating. <i>Nanomaterials and Energy</i> , 2013 , 2, 121-133	1.1	14
228	Squeeze flow behavior of (soft glassy) thixotropic material. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2012 , 167-168, 9-17	2.7	18
227	Electro-magnetic-field-induced flow and interfacial instabilities in confined stratified liquid layers. <i>Theoretical and Computational Fluid Dynamics</i> , 2012 , 26, 23-28	2.3	15
226	Instabilities in free-surface electroosmotic flows. <i>Theoretical and Computational Fluid Dynamics</i> , 2012 , 26, 311-318	2.3	19
225	Multiscale micro-patterned polymeric and carbon substrates derived from buckled photoresist films: fabrication and cytocompatibility. <i>Journal of Materials Science</i> , 2012 , 47, 3867-3875	4.3	11
224	Combinatorial Block Copolymer Ordering on Tunable Rough Substrates. <i>Macromolecules</i> , 2012 , 45, 4303-4314	4.3	18
223	CuCl ₂ Nanoparticles Dispersed in Activated Carbon Fibers for the Oxygen Production Step of the CuCl Thermochemical Water Splitting Cycle. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 15633-15641	3.9	9
222	Shear mediated elongational flow and yielding in soft glassy materials. <i>Soft Matter</i> , 2012 , 8, 10107	3.6	19
221	Instability and Pattern Formation Induced in Thin Crystalline Layers of a Conducting Polymer P3HT by Unstable Carrier Films of an Insulating Polymer. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 21615-21621	3.8	10
220	Direction specific adhesion induced by subsurface liquid filled microchannels. <i>Soft Matter</i> , 2012 , 8, 7228	3.6	5
219	From finite-amplitude equilibrium structures to dewetting in thin polymer films on chemically patterned substrates. <i>Soft Matter</i> , 2012 , 8, 10394	3.6	15
218	Sub-40 nm polymer dot arrays by self-organized dewetting of electron beam treated ultrathin polymer films. <i>RSC Advances</i> , 2012 , 2, 2247	3.7	12
217	Bubble pinch-off and scaling during liquid drop impact on liquid pool. <i>Physics of Fluids</i> , 2012 , 24, 082108	4.4	24
216	Prefracture Instabilities Govern Generation of Self-Affine Surfaces in Tearing of Soft Viscoelastic Elastomeric Sheets. <i>Macromolecules</i> , 2012 , 45, 2066-2073	5.5	8
215	Dewetting of Stable Thin Polymer Films Induced by a Poor Solvent: Role of Polar Interactions. <i>Macromolecules</i> , 2012 , 45, 6628-6633	5.5	39
214	Increased graphitization in electrospun single suspended carbon nanowires integrated with carbon-MEMS and carbon-NEMS platforms. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 34-9	9.5	54
213	Reusable antifouling viscoelastic adhesive with an elastic skin. <i>Langmuir</i> , 2012 , 28, 42-6	4	23

212	Biomimetic wet adhesion of viscoelastic liquid films anchored on micropatterned elastic substrates. <i>Langmuir</i> , 2012 , 28, 14784-91	4	21
211	Electric-Field-Induced Instabilities in Thin Liquid Trilayers Confined between Patterned Electrodes. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 22847-22858	3.8	15
210	Development of novel in situ nickel-doped, phenolic resin-based micro/meso-activated carbon adsorbents for the removal of vitamin B-12. <i>Chemical Engineering Journal</i> , 2012 , 197, 250-260	14.7	46
209	Diblock copolymer lamellae on sinusoidal and fractal surfaces. <i>Journal of Chemical Physics</i> , 2012 , 136, 094903	3.9	5
208	Creating self-organized submicrometer contact instability patterns in soft elastic bilayers with a topographically patterned stamp. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 355-62	9.5	33
207	Surfactant-Enhanced Multiscale Carbon Webs Including Nanofibers and Ni-Nanoparticles for the Removal of Gaseous Persistent Organic Pollutants. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 2104-2112	3.9	20
206	Site-specific fabrication of graphitic microporous carbon terminated with ordered multilayer graphene walls. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012 , 6, 315-317	2.5	5
205	Electrospinning Combined with Nonsolvent-Induced Phase Separation To Fabricate Highly Porous and Hollow Submicrometer Polymer Fibers. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 1761-1766	3.9	105
204	Improved graphitization and electrical conductivity of suspended carbon nanofibers derived from carbon nanotube/polyacrylonitrile composites by directed electrospinning. <i>Carbon</i> , 2012 , 50, 1753-1761	10.4	131
203	Fe-nanoparticles dispersed carbon micro and nanofibers: Surfactant-mediated preparation and application to the removal of gaseous VOCs. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 399, 46-55	5.1	52
202	Electric field and van der Waals force induced instabilities in thin viscoelastic bilayers. <i>Physics of Fluids</i> , 2012 , 24, 074106	4.4	13
201	Electric-field-induced interfacial instabilities of a soft elastic membrane confined between viscous layers. <i>Physical Review E</i> , 2012 , 86, 041602	2.4	2
200	Contact instabilities of anisotropic and inhomogeneous soft elastic films. <i>Physical Review E</i> , 2012 , 85, 021603	2.4	4
199	Oblique Drop Impact on Deep and Shallow Liquid. <i>Communications in Computational Physics</i> , 2012 , 11, 1386-1396	2.4	14
198	Preparation, Surface Functionalization, and Characterization of Carbon Micro Fibers for Adsorption Applications. <i>Environmental Engineering Science</i> , 2011 , 28, 725-733	2	8
197	Modification of Activated Carbon Fiber by Metal Dispersion and Surface Functionalization for the Removal of 2-Chloroethanol. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 13092-13104	3.9	25
196	Growth of Noncircular and Faceted Holes in Liquid-Liquid Dewetting of Thin Polymer Bilayers. <i>Macromolecules</i> , 2011 , 44, 9335-9340	5.5	13
195	Biomimicked Superhydrophobic Polymeric and Carbon Surfaces. <i>Industrial & Engineering Chemistry Research</i> , 2011 , 50, 13012-13020	3.9	21

194	Dewetting kinetics of thin polymer bilayers: Role of under layer. <i>Polymer</i> , 2011 , 52, 4345-4354	3.9	14
193	Development of bi-metal doped micro- and nano multi-functional polymeric adsorbents for the removal of fluoride and arsenic(V) from wastewater. <i>Desalination</i> , 2011 , 282, 27-38	10.3	97
192	Bilayer staggered herringbone micro-mixers with symmetric and asymmetric geometries. <i>Microfluidics and Nanofluidics</i> , 2011 , 10, 271-286	2.8	23
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