

# Ludovic F DumÃ©nil

## List of Publications by Year in descending order

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169  
papers

7,230  
citations

57719

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66879

78  
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170  
docs citations

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times ranked

8434  
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#	ARTICLE	IF	CITATIONS
1	Circular Materials and Circular Designâ€”Review on Challenges Towards Sustainable Manufacturing and Recycling. <i>Circular Economy and Sustainability</i> , 2022, 2, 9-23.	3.3	28
2	Circular materialsâ€”An essay on challenges with current manufacturing and recycling strategies as well as on the potential of life cycle integrated designs. , 2022, , 359-372.		3
3	Constructing novel nanofibrous polyacrylonitrile (PAN)-based anion exchange membrane adsorber for protein separation. <i>Separation and Purification Technology</i> , 2022, 285, 120364.	3.9	11
4	Crossâ€”linked boron nitrideâ€”piperazine amide thin film nanocomposite membranes for rejection and concentration of perâ€”and polyâ€”fluoroalkyl substances (PFAS). <i>Environmental Quality Management</i> , 2022, 31, 425-432.	1.0	3
5	Sizeâ€”Controlled Nanosculpture of Cylindrical Pores across Multilayer Graphene via Photocatalytic Perforation. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	4
6	Recent Advances in the Theory and Application of Nanofiltration: a Review. <i>Current Pollution Reports</i> , 2022, 8, 51-80.	3.1	36
7	Engineering Schottky-like and heterojunction materials for enhanced photocatalysis performance â€” a review. <i>Materials Advances</i> , 2022, 3, 2309-2323.	2.6	39
8	Thermally-stable photo-curing chemistry for additive manufacturing by direct melt electrowriting. <i>Additive Manufacturing</i> , 2022, 51, 102623.	1.7	3
9	Towards next generation high throughput ion exchange membranes for downstream bioprocessing: A review. <i>Journal of Membrane Science</i> , 2022, 647, 120325.	4.1	12
10	Nano-enabled sensing of per-/poly-fluoroalkyl substances (PFAS) from aqueous systems â€” A review. <i>Journal of Environmental Management</i> , 2022, 308, 114655.	3.8	20
11	Electro-Driven Materials and Processes for Lithium Recoveryâ€”A Review. <i>Membranes</i> , 2022, 12, 343.	1.4	7
12	Membrane distillation for sustainable wastewater treatment. <i>Journal of Water Process Engineering</i> , 2022, 47, 102670.	2.6	13
13	Heavy metal pollution and risks in a highly polluted and populated Indian riverâ€”city pair using the systems approach. <i>Environmental Science and Pollution Research</i> , 2022, 29, 60212-60231.	2.7	8
14	Isolating motile sperm cell sorting using biocompatible electrospun membranes. <i>Scientific Reports</i> , 2022, 12, 6057.	1.6	0
15	Photocatalytic-triggered nanopores across multilayer graphene for high-permeation membranes. <i>Chemical Engineering Journal</i> , 2022, 443, 136253.	6.6	5
16	Atomically-thin Schottky-like photo-electrocatalytic cross-flow membrane reactors for ultrafast remediation of persistent organic pollutants. <i>Water Research</i> , 2022, 218, 118519.	5.3	26
17	Ecotoxic effects of microplastics and contaminated microplastics â€” Emerging evidence and perspective. <i>Science of the Total Environment</i> , 2022, 841, 156593.	3.9	17
18	Atomic layer deposition of transition metal films and nanostructures for electronic and catalytic applications. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2021, 46, 468-489.	6.8	12

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19	Nanoscale 2D semi-conductors – Impact of structural properties on light propagation depth and photocatalytic performance. Separation and Purification Technology, 2021, 258, 118011.	3.9	15
20	Flexible and reusable carbon nano-fibre membranes for airborne contaminants capture. Science of the Total Environment, 2021, 754, 142231.	3.9	18
21	Nano-enabled sensors for detection of arsenic in water. Water Research, 2021, 188, 116538.	5.3	46
22	Impact of incubation conditions and post-treatment on the properties of bacterial cellulose membranes for pressure-driven filtration. Carbohydrate Polymers, 2021, 251, 117073.	5.1	15
23	3D Printing: An Alternative Microfabrication Approach with Unprecedented Opportunities in Design. Analytical Chemistry, 2021, 93, 350-366.	3.2	69
24	Carbon nanotube membranes – Strategies and challenges towards scalable manufacturing and practical separation applications. Separation and Purification Technology, 2021, 257, 117929.	3.9	56
25	2D nanosheet enabled thin film nanocomposite membranes for freshwater production – a review. Materials Advances, 2021, 2, 3519-3537.	2.6	11
26	Electro-catalytic membrane reactors for the degradation of organic pollutants – a review. Reaction Chemistry and Engineering, 2021, 6, 1508-1526.	1.9	17
27	Molecular Decoration of Ceramic Supports for Highly Effective Enzyme Immobilization – Material Approach. Materials, 2021, 14, 201.	1.3	14
28	Predicting Operating Rules for Successful Melt Electrowriting. ACS Applied Polymer Materials, 2021, 3, 1890-1898.	2.0	10
29	Strategies for Integrated Capture and Conversion of CO <sub>2</sub> from Dilute Flue Gases and the Atmosphere. ChemSusChem, 2021, 14, 1805-1820.	3.6	37
30	Growth of diamond coating on carbon fiber: Relationship between fiber microstructure and stability in hydrogen plasma. Diamond and Related Materials, 2021, 115, 108349.	1.8	2
31	3D printing for the integration of porous materials into miniaturised fluidic devices: A review. Analytica Chimica Acta, 2021, 1185, 338796.	2.6	28
32	Remediation of water from per-/poly-fluoroalkyl substances (PFAS) – Challenges and perspectives. Journal of Environmental Chemical Engineering, 2021, 9, 105784.	3.3	53
33	Cellulose acetate-based membranes by interfacial engineering and integration of ZIF-62 glass nanoparticles for CO <sub>2</sub> separation. Journal of Hazardous Materials, 2021, 415, 125639.	6.5	75
34	Applications of Membranes for Sustainability. Membranes, 2021, 11, 629.	1.4	1
35	Surface adsorption of metallic species onto microplastics with long-term exposure to the natural marine environment. Science of the Total Environment, 2021, 780, 146613.	3.9	25
36	Nano/micro plastics – Challenges on quantification and remediation: A review. Journal of Water Process Engineering, 2021, 42, 102128.	2.6	28

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37	Modelling Amorphous Nanoporous Polymers Doped with an Ionic Liquid via an Adaptable Computational Procedure. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 11893-11904.	1.8	1
38	Crystalline porous frameworks as nano-enhancers for membrane liquid separation – Recent developments. <i>Coordination Chemistry Reviews</i> , 2021, 440, 213969.	9.5	27
39	Mitigation of membrane particulate fouling by nano/microplastics via physical cleaning strategies. <i>Science of the Total Environment</i> , 2021, 788, 147689.	3.9	31
40	Mitigation of membrane fouling by nano/microplastics via surface chemistry control. <i>Journal of Membrane Science</i> , 2021, 633, 119379.	4.1	32
41	Nano and micro plastics in water processing – Where are we at?. <i>Journal of Water Process Engineering</i> , 2021, 43, 102281.	2.6	3
42	Hybrid polymer/ionic liquid electrospun membranes with tunable surface charge for virus capture in aqueous environments. <i>Journal of Water Process Engineering</i> , 2021, 43, 102278.	2.6	9
43	Membrane fouling by nanofibres and organic contaminants – Mechanisms and mitigation via periodic cleaning strategies. <i>Separation and Purification Technology</i> , 2021, 278, 119592.	3.9	11
44	Blood apheresis technologies – a critical review on challenges towards efficient blood separation and treatment. <i>Materials Advances</i> , 2021, 2, 7210-7236.	2.6	8
45	Microdialysis and microperfusion electrodes in neurologic disease monitoring. <i>Fluids and Barriers of the CNS</i> , 2021, 18, 52.	2.4	11
46	Photo-catalytic membrane reactors for the remediation of persistent organic pollutants – A review. <i>Separation and Purification Technology</i> , 2020, 230, 115878.	3.9	120
47	Release of hazardous nanoplastic contaminants due to microplastics fragmentation under shear stress forces. <i>Journal of Hazardous Materials</i> , 2020, 384, 121393.	6.5	225
48	UV-Assisted Fabrication of Green Quality rGO with Wavelength-Dependant Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1031-1042.	3.2	13
49	A review on the sources, occurrence and health risks of per-/poly-fluoroalkyl substances (PFAS) arising from the manufacture and disposal of electric and electronic products. <i>Journal of Water Process Engineering</i> , 2020, 38, 101683.	2.6	74
50	Architecting neonicotinoid-scavenging nanocomposite hydrogels for environmental remediation. <i>Applied Materials Today</i> , 2020, 21, 100878.	2.3	69
51	Downsizing metal-organic frameworks by bottom-up and top-down methods. <i>NPG Asia Materials</i> , 2020, 12, .	3.8	105
52	Recrystallization and coalescence kinetics of TiO <sub>2</sub> and ZnO nano-catalysts towards enhanced photocatalytic activity and colloidal stability within slurry reactors. <i>Materials Chemistry and Physics</i> , 2020, 252, 123235.	2.0	8
53	Covalent organic framework incorporated outer-selective hollow fiber thin-film nanocomposite membranes for osmotically driven desalination. <i>Desalination</i> , 2020, 485, 114461.	4.0	31
54	Direct contact membrane distillation for effective concentration of perfluoroalkyl substances – Impact of surface fouling and material stability. <i>Water Research</i> , 2020, 182, 116010.	5.3	32

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55	Kinetic and mechanistic aspects of ultrafiltration membrane fouling by nano- and microplastics. <i>Journal of Membrane Science</i> , 2020, 601, 117890.	4.1	109
56	Natural organic matter removal and fouling resistance properties of a boron nitride nanosheet-functionalized thin film nanocomposite membrane and its impact on permeate chlorine demand. <i>Journal of Water Process Engineering</i> , 2020, 34, 101160.	2.6	27
57	Nanofibers for heavy metal ion adsorption: Correlating surface properties to adsorption performance, and strategies for ion selectivity and recovery. <i>Environmental Nanotechnology, Monitoring and Management</i> , 2020, 13, 100297.	1.7	12
58	Engineering high-defect densities across vertically-aligned graphene nanosheets to induce photocatalytic reactivity. <i>Carbon</i> , 2020, 168, 32-41.	5.4	22
59	Applications of nano-porous graphene materials – critical review on performance and challenges. <i>Materials Horizons</i> , 2020, 7, 1218-1245.	6.4	64
60	Functional Nanoporous Titanium Dioxide for Separation Applications: Synthesis Routes and Properties to Performance Analysis. , 2019, , 151-186.		1
61	CO2 sponge from plasma enhanced seeded growth of metal organic frameworks across carbon nanotube bucky-papers. <i>Separation and Purification Technology</i> , 2019, 209, 571-579.	3.9	13
62	One-pot synthesis of catalytic molybdenum based nanocomposite nano-fiber membranes for aerosol air remediation. <i>Science of the Total Environment</i> , 2019, 647, 725-733.	3.9	42
63	Review on Sperm Sorting Technologies and Sperm Properties toward New Separation Methods via the Interface of Biochemistry and Material Science. <i>Advanced Biology</i> , 2019, 3, 1900079.	3.0	9
64	Catalytic electrospun nano-composite membranes for virus capture and remediation. <i>Separation and Purification Technology</i> , 2019, 229, 115806.	3.9	36
65	Mixed Matrix Poly(Vinyl Alcohol)-Copper Nanofibrous Anti-Microbial Air-Microfilters. <i>Membranes</i> , 2019, 9, 87.	1.4	16
66	Perforation routes towards practical nano-porous graphene and analogous materials engineering. <i>Carbon</i> , 2019, 155, 660-673.	5.4	46
67	Wrinkled silica doped electrospun nano-fiber membranes with engineered roughness for advanced aerosol air filtration. <i>Separation and Purification Technology</i> , 2019, 215, 500-507.	3.9	77
68	Hybrid graphene-decorated metal hollow fibre membrane reactors for efficient electro-Fenton - Filtration co-processes. <i>Journal of Membrane Science</i> , 2019, 587, 117182.	4.1	45
69	Nano/microplastics in water and wastewater treatment processes – Origin, impact and potential solutions. <i>Water Research</i> , 2019, 161, 621-638.	5.3	372
70	Novel thin film nanocomposite membranes decorated with few-layered boron nitride nanosheets for simultaneously enhanced water flux and organic fouling resistance. <i>Applied Surface Science</i> , 2019, 488, 565-577.	3.1	48
71	Upgrading of zirconia membrane performance in removal of hazardous VOCs from water by surface functionalization. <i>Chemical Engineering Journal</i> , 2019, 374, 155-169.	6.6	42
72	Sub-10-nm Mixed Titanium/Tantalum Oxide Nanoporous Films with Visible-Light Photocatalytic Activity for Water Treatment. <i>ACS Applied Nano Materials</i> , 2019, 2, 1951-1963.	2.4	9

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73	Tuning CO <sub>2</sub> conversion product selectivity of metal organic frameworks derived hybrid carbon photoelectrocatalytic reactors. Carbon, 2019, 148, 80-90.	5.4	37
74	Fabrication of Pd-TiO <sub>2</sub> nanotube photoactive junctions via Atomic Layer Deposition for persistent pesticide pollutants degradation. Applied Surface Science, 2019, 483, 219-230.	3.1	38
75	Enhanced Visible Light Sensitization of N-Doped TiO <sub>2</sub> Nanotubes Containing Ti-Oxynitride Species Fabricated via Electrochemical Anodization of Titanium Nitride. Journal of Physical Chemistry C, 2019, 123, 2189-2201.	1.5	21
76	Discrete silver nanoparticle infusion across silica aerogels towards versatile catalytic coatings for 4-nitrophenol reduction. Materials Chemistry and Physics, 2019, 223, 404-409.	2.0	5
77	Polyhedral Oligomeric Silsesquioxane (POSS) Nano-Composite Separation Membranes – A Review. Advanced Engineering Materials, 2019, 21, 1800667.	1.6	42
78	Thermo-responsive nanofibrous composite membranes for efficient self-cleaning of protein foulants. Journal of Membrane Science, 2019, 574, 309-317.	4.1	33
79	Nanofibers for Membrane Applications. , 2019, , 937-960.		1
80	Electrospun Membranes for Airborne Contaminants Capture. , 2018, , 1-18.		5
81	Metal alloy solid-state nanopores for single nanoparticle detection. Physical Chemistry Chemical Physics, 2018, 20, 12799-12807.	1.3	16
82	Graphene based room temperature flexible nanocomposites from permanently cross-linked networks. Scientific Reports, 2018, 8, 2803.	1.6	28
83	Pore engineering towards highly efficient electrospun nanofibrous membranes for aerosol particle removal. Science of the Total Environment, 2018, 625, 706-715.	3.9	63
84	Catalytic nickel and nickel-copper alloy hollow-fiber membranes for the remediation of organic pollutants by electrocatalysis. Journal of Materials Chemistry A, 2018, 6, 6904-6915.	5.2	18
85	Renewable CO <sub>2</sub> absorbent for carbon capture and biogas upgrading by membrane contactor. Separation and Purification Technology, 2018, 194, 207-215.	3.9	53
86	High Efficiency Poly(acrylonitrile) Electrospun Nanofiber Membranes for Airborne Nanomaterials Filtration. Advanced Engineering Materials, 2018, 20, 1700572.	1.6	84
87	Electro-capture of heavy metal ions with carbon cloth integrated microfluidic devices. Separation and Purification Technology, 2018, 194, 26-32.	3.9	36
88	The growth of high density network of MOF nano-crystals across macroporous metal substrates – Solvothermal synthesis versus rapid thermal deposition. Applied Surface Science, 2018, 427, 401-408.	3.1	20
89	In Situ SAXS Measurement and Molecular Dynamics Simulation of Magnetic Alignment of Hexagonal LLC Nanostructures. Membranes, 2018, 8, 123.	1.4	2
90	An in-situ small angle x ray scattering analysis of nanopore formation during thermally induced chemical dealloying of brass thin foils. Scientific Reports, 2018, 8, 15419.	1.6	8

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91	Dual Functional Ultrafiltration Membranes with Enzymatic Digestion and Thermo-Responsivity for Protein Self-Cleaning. <i>Membranes</i> , 2018, 8, 85.	1.4	7
92	Impact of Comonomer Chemistry on Phase Behavior of Polymerizable Lyotropic Ionic Liquid Crystals: A Pre- and Post-Polymerization Study. <i>Macromolecular Chemistry and Physics</i> , 2018, 219, 1800307.	1.1	3
93	Short Review on Porous Metal Membranes' Fabrication, Commercial Products, and Applications. <i>Membranes</i> , 2018, 8, 83.	1.4	39
94	Smart electrically responsive hybrid ion-selective membranes for selective gated transport of ionic species. <i>Materials Horizons</i> , 2018, 5, 1185-1193.	6.4	12
95	Plasma Modification and Synthesis of Membrane Materials' A Mechanistic Review. <i>Membranes</i> , 2018, 8, 56.	1.4	55
96	Nanofibers for Membrane Applications. , 2018, , 1-24.		2
97	Single step synthesis of Schottky-like hybrid graphene - titania interfaces for efficient photocatalysis. <i>Scientific Reports</i> , 2018, 8, 8154.	1.6	14
98	Nanofiber-Based Materials for Persistent Organic Pollutants in Water Remediation by Adsorption. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 166.	1.3	29
99	Surface-Engineered Biocatalytic Composite Membranes for Reduced Protein Fouling and Self-Cleaning. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 27477-27487.	4.0	24
100	Tuning micro-wrinkled graphene films for stretchable conductors of controllable electrical conductivity. <i>Carbon</i> , 2018, 139, 672-679.	5.4	28
101	Single step synthesis of Janus nano-composite membranes by atmospheric aerosol plasma polymerization for solvents separation. <i>Science of the Total Environment</i> , 2018, 645, 22-33.	3.9	9
102	Ultrasound-assisted fabrication of metal nano-porous shells across polymer beads and their catalytic activity for reduction of 4-nitrophenol. <i>Ultrasonics Sonochemistry</i> , 2018, 49, 63-68.	3.8	13
103	Thin film nanocomposite nanofiltration membranes from amine functionalized-boron nitride/polypiperazine amide with enhanced flux and fouling resistance. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12066-12081.	5.2	122
104	Plasma-induced physicochemical effects on a poly(amide) thin-film composite membrane. <i>Desalination</i> , 2017, 403, 3-11.	4.0	24
105	Hybrid thin film nano-composite membrane reactors for simultaneous separation and degradation of pesticides. <i>Journal of Membrane Science</i> , 2017, 528, 217-224.	4.1	38
106	Metal organic framework based catalysts for CO <sub>2</sub> conversion. <i>Materials Horizons</i> , 2017, 4, 345-361.	6.4	359
107	Silver metal nano-matrixes as high efficiency and versatile catalytic reactors for environmental remediation. <i>Scientific Reports</i> , 2017, 7, 45112.	1.6	11
108	Grafting of N-moiety onto octa-methyl polyhedral oligomeric silsesquioxane microstructures by sequential continuous wave and pulsed plasma. <i>Plasma Processes and Polymers</i> , 2017, 14, 1600244.	1.6	5



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109	Nanofiber Composite Membrane with Intrinsic Janus Surface for Reversed-Protein-Fouling Ultrafiltration. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 18328-18337.	4.0	41
110	Controlled porosity and pore size of nano-porous gold by thermally assisted chemical dealloying – a SAXS study. <i>RSC Advances</i> , 2017, 7, 10821-10830.	1.7	30
111	Insights into Free Volume Variations across Ion-Exchange Membranes upon Mixed Solvents Uptake by Small and Ultrasmall Angle Neutron Scattering. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 8704-8713.	4.0	7
112	Diffusion dynamics of latex nanoparticles coated with ssDNA across a single nanopore. <i>Soft Matter</i> , 2017, 13, 496-502.	1.2	18
113	Inorganic Nanoparticles/Metal Organic Framework Hybrid Membrane Reactors for Efficient Photocatalytic Conversion of CO <sub>2</sub> . <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 35010-35017.	4.0	111
114	Charge tunable thin-film composite membranes by gamma-ray triggered surface polymerization. <i>Scientific Reports</i> , 2017, 7, 4426.	1.6	9
115	Effects of dope sonication and hydrophilic polymer addition on the properties of low pressure PVDF mixed matrix membranes. <i>Journal of Membrane Science</i> , 2017, 540, 200-211.	4.1	23
116	Zinc Oxide PVDF Nano-Composites – Tuning Interfaces toward Enhanced Mechanical Properties and UV Protection. <i>Advanced Engineering Materials</i> , 2017, 19, 1600611.	1.6	11
117	Surface ionic charge dependence on the molecular mobility and self-assembly behavior of ionomers produced from carboxylic acid-terminated dendrimers. <i>Polymer Journal</i> , 2017, 49, 245-254.	1.3	5
118	Preparation of Porous Stainless Steel Hollow-Fibers through Multi-Modal Particle Size Sintering towards Pore Engineering. <i>Membranes</i> , 2017, 7, 40.	1.4	8
119	Electro-Catalytic Biodiesel Production from Canola Oil in Methanolic and Ethanolic Solutions with Low-Cost Stainless Steel and Hybrid Ion-Exchange Resin Grafted Electrodes. <i>Frontiers in Materials</i> , 2017, 4, .	1.2	11
120	Customizing the surface charge of thin-film composite membranes by surface plasma thin film polymerization. <i>Journal of Membrane Science</i> , 2017, 537, 1-10.	4.1	29
121	Insights into Surface Interactions between Metal Organic Frameworks and Gases during Transient Adsorption and Diffusion by In-Situ Small Angle X-ray Scattering. <i>Membranes</i> , 2016, 6, 41.	1.4	3
122	Assessing the temporal stability of surface functional groups introduced by plasma treatments on the outer shells of carbon nanotubes. <i>Scientific Reports</i> , 2016, 6, 31565.	1.6	40
123	Superhydrophobic and Superoleophilic Micro-Wrinkled Reduced Graphene Oxide as a Highly Portable and Recyclable Oil Sorbent. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 9977-9985.	4.0	80
124	Structure – property relationships of elementary bamboo fibers. <i>Cellulose</i> , 2016, 23, 3521-3534.	2.4	12
125	Towards Enhanced Performance Thin-film Composite Membranes via Surface Plasma Modification. <i>Scientific Reports</i> , 2016, 6, 29206.	1.6	50
126	Morphology-properties relationship of gas plasma treated hydrophobic meso-porous membranes and their improved performance for desalination by membrane distillation. <i>Applied Surface Science</i> , 2016, 363, 273-285.	3.1	24



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127	Control of Partial Coalescence of Self-Assembled Metal Nano-Particles across Lyotropic Liquid Crystals Templates towards Long Range Meso-Porous Metal Frameworks Design. <i>Nanomaterials</i> , 2015, 5, 1766-1781.	1.9	7
128	Silver nanoparticles prepared by gamma irradiation across metal-organic framework templates. <i>RSC Advances</i> , 2015, 5, 10707-10715.	1.7	52
129	Synthesis of single-crystalline LiFePO <sub>4</sub> with rhombus-like morphology. <i>Ionics</i> , 2015, 21, 295-299.	1.2	4
130	Growth of nano-textured graphene coatings across highly porous stainless steel supports towards corrosion resistant coatings. <i>Carbon</i> , 2015, 87, 395-408.	5.4	65
131	Promoted water transport across graphene oxide-poly(amide) thin film composite membranes and their antibacterial activity. <i>Desalination</i> , 2015, 365, 126-135.	4.0	164
132	Study on LiFe <sub>1-x</sub> Sm <sub>x</sub> PO <sub>4</sub> /C used as cathode materials for lithium-ion batteries with low Sm component. <i>Ionics</i> , 2015, 21, 2119-2125.	1.2	4
133	Amine Enrichment of Thin-Film Composite Membranes via Low Pressure Plasma Polymerization for Antimicrobial Adhesion. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 14644-14653.	4.0	45
134	A New Insight into Growth Mechanism and Kinetics of Mesoporous Silica Nanoparticles by in Situ Small Angle X-ray Scattering. <i>Langmuir</i> , 2015, 31, 8478-8487.	1.6	78
135	Shrinkage induced stretchable micro-wrinkled reduced graphene oxide composite with recoverable conductivity. <i>Carbon</i> , 2015, 93, 878-886.	5.4	45
136	Understanding water and ion transport behaviour and permeability through poly(amide) thin film composite membrane. <i>Journal of Membrane Science</i> , 2015, 487, 32-39.	4.1	77
137	Investigation of hybrid ion-exchange membranes reinforced with non-woven metal meshes for electro-dialysis applications. <i>Separation and Purification Technology</i> , 2015, 147, 353-363.	3.9	18
138	Enhancement of the Antifouling Properties and Filtration Performance of Poly(ethersulfone) Ultrafiltration Membranes by Incorporation of Nanoporous Titania Nanoparticles. <i>Industrial &amp; Engineering Chemistry Research</i> , 2015, 54, 11188-11198.	1.8	59
139	Characterization of the phase behaviour of a novel polymerizable lyotropic ionic liquid crystal. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 23059-23068.	1.3	22
140	Electrodialysis in Aqueous-Organic Mixtures. <i>Separation and Purification Reviews</i> , 2015, 44, 269-282.	2.8	31
141	Towards integrated anti-microbial capabilities: Novel bio-fouling resistant membranes by high velocity embedment of silver particles. <i>Journal of Membrane Science</i> , 2015, 475, 552-561.	4.1	41
142	Fabrication of Meso-Porous Sintered Metal Thin Films by Selective Etching of Silica Based Sacrificial Template. <i>Nanomaterials</i> , 2014, 4, 686-699.	1.9	6
143	Monoethanolamine Reclamation Using Electrodialysis. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 19313-19321.	1.8	20
144	Tuning the grade of graphene: Gamma ray irradiation of free-standing graphene oxide films in gaseous phase. <i>Applied Surface Science</i> , 2014, 322, 126-135.	3.1	46

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145	Nanofiltration for the concentration of heat stable salts prior to MEA reclamation. <i>International Journal of Greenhouse Gas Control</i> , 2014, 30, 34-41.	2.3	17
146	Qualitative spectroscopic characterization of the matrix-silane coupling agent interface across metal fibre reinforced ion exchange resin composite membranes. <i>Vibrational Spectroscopy</i> , 2014, 75, 203-212.	1.2	8
147	Single step preparation of meso-porous and reduced graphene oxide by gamma-ray irradiation in gaseous phase. <i>Carbon</i> , 2014, 70, 313-318.	5.4	59
148	Impact of the De-Alloying Kinetics and Alloy Microstructure on the Final Morphology of De-Alloyed Meso-Porous Metal Films. <i>Nanomaterials</i> , 2014, 4, 856-878.	1.9	14
149	The role of membrane surface energy on direct contact membrane distillation performance. <i>Desalination</i> , 2013, 323, 22-30.	4.0	58
150	Small angle X-ray scattering study of carbon nanotube forests densified into long range patterns by controlled solvent evaporation. <i>Journal of Colloid and Interface Science</i> , 2013, 407, 556-560.	5.0	12
151	Seeded growth of ZIF-8 on the surface of carbon nanotubes towards self-supporting gas separation membranes. <i>Journal of Materials Chemistry A</i> , 2013, 1, 9208.	5.2	83
152	The fabrication and surface functionalization of porous metal frameworks – a review. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15185.	5.2	56
153	Fabrication of thin film composite poly(amide)-carbon-nanotube supported membranes for enhanced performance in osmotically driven desalination systems. <i>Journal of Membrane Science</i> , 2013, 427, 422-430.	4.1	81
154	Characterization of carbon nanotube webs and yarns with small angle X-ray scattering: Revealing the yarn twist and inter-nanotube interactions and alignment. <i>Carbon</i> , 2013, 63, 562-566.	5.4	31
155	Advances in Membrane Distillation for Water Desalination and Purification Applications. <i>Water (Switzerland)</i> , 2013, 5, 94-196.	1.2	601
156	A high volume and low damage route to hydroxyl functionalization of carbon nanotubes using hard X-ray lithography. <i>Carbon</i> , 2013, 51, 430-434.	5.4	15
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