

Peter S Shuttleworth

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

2,565
citations

218381

26
h-index

189595

50
g-index

67
all docs

67
docs citations

67
times ranked

3471
citing authors

#	ARTICLE	IF	CITATIONS
1	Unveiling the reinforcement effects in cottonseed protein/polycaprolactone blend biocomposites. <i>Composites Science and Technology</i> , 2022, 225, 109480.	3.8	5
2	Investigation of the Crystallization Kinetics and Melting Behaviour of Polymer Blend Nanocomposites Based on Poly(L-Lactic Acid), Nylon 11 and TMDCs WS2. <i>Polymers</i> , 2022, 14, 2692.	2.0	0
3	DPD simulations and experimental study on reduction-sensitive polymeric micelles self-assembled from PCL-SS-PPEGMA for doxorubicin controlled release. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 204, 111797.	2.5	16
4	Nanocomposite Materials with Poly(L-lactic Acid) and Transition-Metal Dichalcogenide Nanosheets 2D-TMDCs WS2. <i>Polymers</i> , 2020, 12, 2699.	2.0	7
5	Scalable graphene-based nanocomposite coatings for flexible and washable conductive textiles. <i>Carbon</i> , 2020, 167, 495-503.	5.4	23
6	Physically-crosslinked polyvinyl alcohol composite hydrogels containing clays, carbonaceous materials and magnetic nanoparticles as fillers. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103795.	3.3	27
7	Exceptionally Stable Microporous Organic Frameworks with Rigid Building Units for Efficient Small Gas Adsorption and Separation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7548-7556.	4.0	11
8	Determination of cross-sectional area of natural plant fibres and fibre failure analysis by in situ SEM observation during microtensile tests. <i>Cellulose</i> , 2019, 26, 4693-4706.	2.4	17
9	Adamantane-Based Micro- and Ultra-Microporous Frameworks for Efficient Small Gas and Toxic Organic Vapor Adsorption. <i>Polymers</i> , 2019, 11, 486.	2.0	7
10	DPD studies on mixed micelles self-assembled from MPEG-PDEAEMA and MPEG-PCL for controlled doxorubicin release. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 178, 56-65.	2.5	28
11	Influence of Density on Microwave Pyrolysis of Cellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 2916-2920.	3.2	16
12	Biochemical profiling of rat embryonic stem cells grown on electrospun polyester fibers using synchrotron infrared microspectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 3649-3660.	1.9	6
13	Monolithic mesoporous graphitic composites as super capacitors: from Starbons to Starenes [®] . <i>Journal of Materials Chemistry A</i> , 2018, 6, 1119-1127.	5.2	13
14	New Perspectives on Graphene/Polymer Fibers and Fabrics for Smart Textiles: The Relevance of the Polymer/Graphene Interphase. <i>Frontiers in Materials</i> , 2018, 5, .	1.2	21
15	Identification of high performance solvents for the sustainable processing of graphene. <i>Green Chemistry</i> , 2017, 19, 2550-2560.	4.6	133
16	Flexible Bionanocomposites from Epoxidized Hemp Seed Oil Thermosetting Resin Reinforced with Halloysite Nanotubes. <i>Journal of Physical Chemistry B</i> , 2017, 121, 2454-2467.	1.2	16
17	Bio-based carbonaceous composite materials from epoxidised linseed oil, bio-derived curing agent and starch with controllable functionality. <i>RSC Advances</i> , 2017, 7, 24282-24290.	1.7	0
18	Polysaccharide-derived mesoporous materials (Starbon [®]) for sustainable separation of complex mixtures. <i>Faraday Discussions</i> , 2017, 202, 451-464.	1.6	21

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19	Importance of Micropore–Mesopore Interfaces in Carbon Dioxide Capture by Carbon-Based Materials. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 9173-9177.	7.2	66
20	An Interesting Class of Porous Polymer–Polysaccharide Gels. <i>ChemSusChem</i> , 2016, 9, 280-288.	3.6	9
21	Green preparation of tuneable carbon–silica composite materials from wastes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 14148-14156.	5.2	15
22	New insights into the curing of epoxidized linseed oil with dicarboxylic acids. <i>Green Chemistry</i> , 2015, 17, 4000-4008.	4.6	106
23	Bio-based polymer nanocomposites based on nylon 11 and WS ₂ inorganic nanotubes. <i>RSC Advances</i> , 2015, 5, 17879-17887.	1.7	10
24	A Sustainable Freeze-Drying Route to Porous Polysaccharides with Tailored Hierarchical Meso- and Macroporosity. <i>Macromolecular Rapid Communications</i> , 2015, 36, 774-779.	2.0	66
25	Starch-derived carbonaceous mesoporous materials (Starbon®) for the selective adsorption and recovery of critical metals. <i>Green Chemistry</i> , 2015, 17, 2146-2149.	4.6	57
26	The potential of microwave technology for the recovery, synthesis and manufacturing of chemicals from bio-wastes. <i>Catalysis Today</i> , 2015, 239, 80-89.	2.2	70
27	Low-temperature microwave-assisted pyrolysis of waste office paper and the application of bio-oil as an AI adhesive. <i>Green Chemistry</i> , 2015, 17, 260-270.	4.6	65
28	CHAPTER 10. Bulk and Surface Analysis of Carbonaceous Materials. <i>RSC Green Chemistry</i> , 2015, , 311-354.	0.0	3
29	Other Approaches and the Commercialisation of Sustainable Carbonaceous Material Technology. <i>RSC Green Chemistry</i> , 2015, , 377-406.	0.0	1
30	Synthesis, Immobilization and Catalytic Activity of a Copper(II) Complex with a Chiral Bis(oxazoline) Molecules, 2014, 19, 11988-11998.	1.7	8
31	Layer-by-Layer Assembly of Biopolyelectrolytes onto Thermo/pH-Responsive Micro/Nano-Gels. <i>Materials</i> , 2014, 7, 7472-7512.	1.3	40
32	Polymer Blend Nanocomposites: Effect of Selective Nanotube Location on the Properties of a Semicrystalline Thermoplastic-Toughened Epoxy Thermoset. <i>Macromolecular Materials and Engineering</i> , 2014, 299, 1430-1444.	1.7	13
33	Applications of nanoparticles in biomass conversion to chemicals and fuels. <i>Green Chemistry</i> , 2014, 16, 573-584.	4.6	96
34	Thermomechanical relaxation and different water states in cottonseed protein derived bioplastics. <i>RSC Advances</i> , 2014, 4, 32320.	1.7	25
35	Bio-based thermoset composites from epoxidised linseed oil and expanded starch. <i>RSC Advances</i> , 2014, 4, 23304-23313.	1.7	32
36	Paramagnetic muon states in mesoporous carbon materials. <i>Journal of Physics: Conference Series</i> , 2014, 551, 012040.	0.3	0

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37	Direct Microwave-Assisted Hydrothermal Depolymerization of Cellulose. <i>Journal of the American Chemical Society</i> , 2013, 135, 11728-11731.	6.6	198
38	Comparative study of the covalent diazotization of graphene and carbon nanotubes using thermogravimetric and spectroscopic techniques. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16806.	1.3	18
39	Shaped mesoporous materials from fresh macroalgae. <i>Journal of Materials Chemistry A</i> , 2013, 1, 5203.	5.2	19
40	Molecular-Level Understanding of the Carbonisation of Polysaccharides. <i>Chemistry - A European Journal</i> , 2013, 19, 9351-9357.	1.7	33
41	Simple Preparation of Novel Metal-Containing Mesoporous Starches. <i>Materials</i> , 2013, 6, 1891-1902.	1.3	8
42	Torrefaction/biochar production by microwave and conventional slow pyrolysis – comparison of energy properties. <i>GCB Bioenergy</i> , 2013, 5, 144-152.	2.5	56
43	The Thermochemical Conversion of Biomass into High-Value Products: Microwave Pyrolysis. <i>RSC Green Chemistry</i> , 2013, , 38-63.	0.0	2
44	Uses of Waste Starch. <i>RSC Green Chemistry</i> , 2013, , 110-129.	0.0	0
45	Thermosetting resin based on epoxidised linseed oil and bio-derived crosslinker. <i>Green Chemistry</i> , 2012, 14, 1759.	4.6	107
46	Low temperature microwave-assisted vs conventional pyrolysis of various biomass feedstocks. <i>Journal of Natural Gas Chemistry</i> , 2012, 21, 270-274.	1.8	44
47	Preparation and characterisation of bioplastics made from cottonseed protein. <i>Green Chemistry</i> , 2012, 14, 2009.	4.6	85
48	Valorisation of Orange Peel Residues: Waste to Biochemicals and Nanoporous Materials. <i>ChemSusChem</i> , 2012, 5, 1694-1697.	3.6	112
49	The importance of being porous: polysaccharide-derived mesoporous materials for use in dye adsorption. <i>RSC Advances</i> , 2012, 2, 8992.	1.7	148
50	Use of green chemical technologies in an integrated biorefinery. <i>Energy and Environmental Science</i> , 2011, 4, 471-479.	15.6	130
51	Microwave-mediated pyrolysis of macro-algae. <i>Green Chemistry</i> , 2011, 13, 2330.	4.6	88
52	Starbon® acids in alkylation and acetylation reactions: Effect of the Brønsted-Lewis acidity. <i>Catalysis Communications</i> , 2011, 12, 1471-1476.	1.6	27
53	Isolation and Characterization of Recovered Starch from Industrial Wastewater. <i>Journal of Polymers and the Environment</i> , 2011, 19, 971-979.	2.4	11
54	Thermal investigation of “molten starch”™. <i>Journal of Thermal Analysis and Calorimetry</i> , 2011, 105, 577-581.	2.0	8

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55	Microwave assisted decomposition of cellulose: A new thermochemical route for biomass exploitation. <i>Bioresource Technology</i> , 2010, 101, 3776-3779.	4.8	151
56	Industrial Applications of C-C Coupling Reactions. <i>Current Organic Synthesis</i> , 2010, 7, 614-627.	0.7	74
57	Switchable adhesives for carpet tiles: a major breakthrough in sustainable flooring. <i>Green Chemistry</i> , 2010, 12, 798.	4.6	21
58	The preparation of high-grade bio-oils through the controlled, low temperature microwave activation of wheat straw. <i>Bioresource Technology</i> , 2009, 100, 6064-6068.	4.8	147
59	Green powerâ€”â€œmoltenâ€”starch adhesives. <i>Journal of Materials Chemistry</i> , 2009, 19, 8589.	6.7	13
60	Facile fabrication of eugenol-containing polysiloxane films with good optical properties and excellent thermal stability via Siâ€”H chemistry. <i>Journal of Materials Chemistry C</i> , 0, , .	2.7	7