# Peter J F Harris

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 92 papers | 7,571 citations | 33 h-index | 87 g-index |
| 94 ext. papers | 8,092 ext. citations | 7.2 avg, IF | 6.37 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 92 | Rosalind Franklin, carbon scientist. *Carbon*, **2021**, 171, 289-293 | 10.4 | 3 |
| 91 | The effect of chiral end groups on the assembly of supramolecular polyurethanes. *Polymer Chemistry*, **2021**, 12, 4488-4500 | 4.9 | 2 |
| 90 | The closed-edge structure of graphite and the effect of electrostatic charging.. *RSC Advances*, **2020**, 10, 7994-8001 | 3.7 | 4 |
| 89 | Nanotubes with horns: a clue to the growth mechanism?. *Fullerenes Nanotubes and Carbon Nanostructures*, **2020**, 28, 541-544 | 1.8 | |
| 88 | Structural transformation of graphite by passage of electric current. *Fullerenes Nanotubes and Carbon Nanostructures*, **2020**, 28, 66-70 | 1.8 | 1 |
| 87 | Fullerene Polymers: A Brief Review. *Journal of Carbon Research*, **2020**, 6, 71 | 3.3 | 6 |
| 86 | Catalysis-free transformation of non-graphitising carbons into highly crystalline graphite. *Communications Materials*, **2020**, 1, | 6 | 4 |
| 85 | Microscopy and literature. *Endeavour*, **2019**, 43, 100695 | 0.5 | 1 |
| 84 | Non-Graphitizing Carbon: Its Structure and Formation from Organic Precursors. *Eurasian Chemico-Technological Journal*, **2019**, 21, 227 | 0.8 | 2 |
| 83 | Pulsed thermal treatment of carbon up to 3000 °C using an atomic absorption spectrometer. *Carbon*, **2018**, 135, 157-163 | 10.4 | 3 |
| 82 | Enhancement of microphase ordering and mechanical properties of supramolecular hydrogen-bonded polyurethane networks. *Polymer Chemistry*, **2018**, 9, 3406-3414 | 4.9 | 17 |
| 81 | Transmission Electron Microscopy of Carbon: A Brief History. *Journal of Carbon Research*, **2018**, 4, 4 | 3.3 | 25 |
| 80 | Engineering carbon materials with electricity. *Carbon*, **2017**, 122, 504-513 | 10.4 | 15 |
| 79 | Characterisation of β-lactoglobulin nanoparticles and their binding to caffeine. *Food Hydrocolloids*, **2017**, 71, 85-93 | 10.6 | 30 |
| 78 | A systematic study of the effect of the hard end-group composition on the microphase separation, thermal and mechanical properties of supramolecular polyurethanes. *Polymer*, **2016**, 107, 368-378 | 3.9 | 14 |
| 77 | The structure of junctions between carbon nanotubes and graphene shells. *Nanoscale*, **2016**, 8, 18849-18854 | 7.7 | 10 |
| 76 | Structural transformation of natural graphite by passage of an electric current. *Carbon*, **2016**, 107, 132-137 | 10.4 | 8 |

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| 75 | To what extent can mutual shifting of folded carbonaceous walls in slit-like pores affect their adsorption properties?. *Journal of Physics Condensed Matter*, **2016**, 28, 015002 | 1.8 | 1 |
| 74 | Bilayer graphene formed by passage of current through graphite: evidence for a three-dimensional structure. *Nanotechnology*, **2014**, 25, 465601 | 3.4 | 10 |
| 73 | Folding of graphene slit like pore walls--a simple method of improving CO2 separation from mixtures with CH4 or N2. *Journal of Physics Condensed Matter*, **2014**, 26, 485006 | 1.8 | 7 |
| 72 | Novel bilayer graphene structures produced by arc-discharge. *Journal of Physics: Conference Series*, **2014**, 522, 012067 | 0.3 | |
| 71 | Synergetic effect of carbon nanopore size and surface oxidation on CO2 capture from CO2/CH4 mixtures. *Journal of Colloid and Interface Science*, **2013**, 397, 144-53 | 9.3 | 38 |
| 70 | Fullerene-like models for microporous carbon. *Journal of Materials Science*, **2013**, 48, 565-577 | 4.3 | 85 |
| 69 | Applicability of molecular simulations for modelling the adsorption of the greenhouse gas CF4 on carbons. *Journal of Physics Condensed Matter*, **2013**, 25, 015004 | 1.8 | 8 |
| 68 | Displacement of Methane by Coadsorbed Carbon Dioxide Is Facilitated In Narrow Carbon Nanopores. *Journal of Physical Chemistry C*, **2012**, 116, 13640-13649 | 3.8 | 41 |
| 67 | Hollow structures with bilayer graphene walls. *Carbon*, **2012**, 50, 3195-3199 | 10.4 | 17 |
| 66 | Multiple hydrogen bonds induce formation of nanoparticles with internal microemulsion structure by an amphiphilic copolymer. *Soft Matter*, **2011**, 7, 10116 | 3.6 | 16 |
| 65 | Tuning the self-assembly of the bioactive dipeptide L-carnosine by incorporation of a bulky aromatic substituent. *Langmuir*, **2011**, 27, 2980-8 | 4 | 59 |
| 64 | Structures of Pd(CN)2 and Pt(CN)2: intrinsically nanocrystalline materials?. *Inorganic Chemistry*, **2011**, 50, 104-13 | 5.1 | 16 |
| 63 | The influence of the carbon surface chemical composition on Dubinin-Astakhov equation parameters calculated from SF6 adsorption data-grand canonical Monte Carlo simulation. *Journal of Physics Condensed Matter*, **2011**, 23, 395005 | 1.8 | 4 |
| 62 | The influence of carbon surface oxygen groups on Dubinin-Astakhov equation parameters calculated from CO2 adsorption isotherm. *Journal of Physics Condensed Matter*, **2010**, 22, 085003 | 1.8 | 21 |
| 61 | Molecular dynamics simulation insight into the mechanism of phenol adsorption at low coverages from aqueous solutions on microporous carbons. *Physical Chemistry Chemical Physics*, **2010**, 12, 812-7 | 3.6 | 30 |
| 60 | Simple model of adsorption on external surface of carbon nanotubes□ new analytical approach basing on molecular simulation data. *Adsorption*, **2010**, 16, 197-213 | 2.6 | 19 |
| 59 | BET surface area of carbonaceous adsorbents□Verification using geometric considerations and GCMC simulations on virtual porous carbon models. *Applied Surface Science*, **2010**, 256, 5204-5209 | 6.7 | 21 |
| 58 | Ultrathin graphitic structures and carbon nanotubes in a purified synthetic graphite. *Journal of Physics Condensed Matter*, **2009**, 21, 355009 | 1.8 | 12 |

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| 57 | The track nanotechnology. *Radiation Measurements*, **2009**, 44, 1109-1113 | 1.5 | 13 |
| 56 | Can carbon surface oxidation shift the pore size distribution curve calculated from Ar, N(2) and CO(2) adsorption isotherms? Simulation results for a realistic carbon model. *Journal of Physics Condensed Matter*, **2009**, 21, 315005 | 1.8 | 33 |
| 55 | A self-repairing, supramolecular polymer system: healability as a consequence of donor-acceptor pi-pi stacking interactions. *Chemical Communications*, **2009**, 6717-9 | 5.8 | 422 |
| 54 | Open and closed edges of graphene layers. *Physical Review Letters*, **2009**, 102, 015501 | 7.4 | 476 |
| 53 | Adsorption from aqueous solutions on opened carbon nanotubes--organic compounds speed up delivery of water from inside. *Physical Chemistry Chemical Physics*, **2009**, 11, 9341-5 | 3.6 | 19 |
| 52 | Influence of the solvent on the self-assembly of a modified amyloid beta peptide fragment. I. Morphological investigation. *Journal of Physical Chemistry B*, **2009**, 113, 9978-87 | 3.4 | 84 |
| 51 | Carbon Nanotube Science: Synthesis, Properties and Applications **2009**, | | 217 |
| 50 | Self-assembly of Peptide nanotubes in an organic solvent. *Langmuir*, **2008**, 24, 8158-62 | 4 | 111 |
| 49 | Imaging the atomic structure of activated carbon. *Journal of Physics Condensed Matter*, **2008**, 20, 362201 | 1.8 | 117 |
| 48 | Pyrolysis of Polymer-Derived Carbons in the Formation of Graphitizing Carbons and Nanoparticles of Zirconia. *Industrial & Engineering Chemistry Research*, **2008**, 47, 2605-2611 | 3.9 | 2 |
| 47 | Testing isotherm models and recovering empirical relationships for adsorption in microporous carbons using virtual carbon models and grand canonical Monte Carlo simulations. *Journal of Physics Condensed Matter*, **2008**, 20, 385212 | 1.8 | 16 |
| 46 | Self-assembly in aqueous solution of a modified amyloid beta peptide fragment. *Biophysical Chemistry*, **2008**, 138, 29-35 | 3.5 | 47 |
| 45 | How realistic is the pore size distribution calculated from adsorption isotherms if activated carbon is composed of fullerene-like fragments?. *Physical Chemistry Chemical Physics*, **2007**, 9, 5919-27 | 3.6 | 58 |
| 44 | Hyper-parallel tempering Monte Carlo simulations of Ar adsorption in new models of microporous non-graphitizing activated carbon: effect of microporosity. *Journal of Physics Condensed Matter*, **2007**, 19, 406208 | 1.8 | 39 |
| 43 | Chiral Polymer□arbon-Nanotube Composite Nanofibers. *Advanced Materials*, **2007**, 19, 1079-1083 | 24 | 30 |
| 42 | Electrodeposition of chiral polymer-carbon nanotube composite films. *ChemPhysChem*, **2007**, 8, 1766-9 | 3.2 | 11 |
| 41 | Solid state growth mechanisms for carbon nanotubes. *Carbon*, **2007**, 45, 229-239 | 10.4 | 166 |
| 40 | Direct observation of carbon nanotube formation in Pd/H-ZSM-5 and MoO3/H-ZSM-5 based methane activation catalysts. *Catalysis Letters*, **2007**, 116, 122-127 | 2.8 | 8 |

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|---|---|---|---|
| 39 | New Perspectives on the Structure of Graphitic Carbons. *Critical Reviews in Solid State and Materials Sciences*, **2005**, 30, 235-253 | 10.1 | 278 |
| 38 | Low-Temperature Sol□Gel Preparation of Ordered Nanoparticles of Tungsten Carbide/Oxide. *Industrial & Engineering Chemistry Research*, **2005**, 44, 5575-5578 | 3.9 | 29 |
| 37 | Spatial variation in soil compaction, and the burrowing activity of the earthworm Aporrectodea caliginosa. *Biology and Fertility of Soils*, **2004**, 39, 360-365 | 6.1 | 21 |
| 36 | The trapping and decomposition of toxic gases such as hydrogen cyanide using modified mesoporous silicates. *Microporous and Mesoporous Materials*, **2004**, 75, 121-128 | 5.3 | 21 |
| 35 | Carbon nanotube composites. *International Materials Reviews*, **2004**, 49, 31-43 | 16.1 | 573 |
| 34 | Catalytic and noncatalytic CO oxidation on Au/TiO2 catalysts. *Journal of Catalysis*, **2003**, 219, 17-24 | 7.3 | 76 |
| 33 | A new and effective synthesis of non-stoichiometric metal oxides such as oxygen-deficient WO2.72. *Journal of Materials Chemistry*, **2003**, 13, 445-446 | | 17 |
| 32 | Carbon nanomaterials from eleven caking coals. *Fuel*, **2002**, 81, 1509-1514 | 7.1 | 39 |
| 31 | Preparation and characterisation of supported La0.8Sr0.2MnO3+x. *Applied Catalysis A: General*, **2001**, 210, 63-73 | 5.1 | 25 |
| 30 | Carbonaceous contaminants on support films for transmission electron microscopy. *Carbon*, **2001**, 39, 909-913 | 10.4 | 17 |
| 29 | Rosalind Franklin's work on coal, carbon, and graphite. *Interdisciplinary Science Reviews*, **2001**, 26, 204-210 | 0.7 | 19 |
| 28 | Preparation of fullerenes using carbon rods manufactured from Chinese hard coals. *Fuel*, **2000**, 79, 1303-1308 | 7.1 | 25 |
| 27 | Fullerene-like carbon nanostructures in the Allende meteorite. *Earth and Planetary Science Letters*, **2000**, 183, 355-359 | 5.3 | 29 |
| 26 | High-resolution electron microscopy of a microporous carbon. *Philosophical Magazine Letters*, **2000**, 80, 381-386 | 1 | 98 |
| 25 | On charcoal. *Interdisciplinary Science Reviews*, **1999**, 24, 301-306 | 0.7 | 33 |
| 24 | Carbon Nanotubes and Related Structures: New Materials for the Twenty-first Century **1999**, | | 643 |
| 23 | Encapsulating uranium in carbon nanoparticles using a new technique. *Carbon*, **1998**, 36, 1859-1861 | 10.4 | 28 |
| 22 | A simple technique for the synthesis of filled carbon nanoparticles. *Chemical Physics Letters*, **1998**, 293, 53-58 | 2.5 | 91 |

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|---|---|---|---|
| 21 | Structure of non-graphitising carbons. *International Materials Reviews*, **1997**, 42, 206-218 | 16.1 | 152 |
| 20 | High-resolution electron microscopy studies of non-graphitizing carbons. *Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties*, **1997**, 76, 667-677 | | 182 |
| 19 | Carbon nanotubes and other graphitic structures as contaminants on evaporated carbon films. *Journal of Microscopy*, **1997**, 186, 88-90 | 1.9 | 19 |
| 18 | Mechanical damage of carbon nanotubes by ultrasound. *Carbon*, **1996**, 34, 814-816 | 10.4 | 486 |
| 17 | Growth and structure of supported metal catalyst particles. *International Materials Reviews*, **1995**, 40, 97-115 | 16.1 | 124 |
| 16 | Particle size studies of supported metal catalysts: a comparative study by X-ray diffraction, EXAFS and electron microscopy. *Catalysis Letters*, **1994**, 24, 47-57 | 2.8 | 26 |
| 15 | A simple chemical method of opening and filling carbon nanotubes. *Nature*, **1994**, 372, 159-162 | 50.4 | 1139 |
| 14 | High-resolution electron microscopy studies of a microporous carbon produced by arc-evaporation. *Journal of the Chemical Society, Faraday Transactions*, **1994**, 90, 2799 | | 119 |
| 13 | Plan-view and profile imaging of sulphided platinum particles. *The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties*, **1994**, 69, 655-669 | | 6 |
| 12 | High-resolution electron microscopy of tubule-containing graphitic carbon. *Journal of the Chemical Society, Faraday Transactions*, **1993**, 89, 1189 | | 37 |
| 11 | A microporous carbon produced by arc-evaporation. *Journal of the Chemical Society Chemical Communications*, **1993**, 1519 | | 16 |
| 10 | Foliar catechol oxidase activity as a measure of copper nutrition of tomato plants. *Journal of the Science of Food and Agriculture*, **1993**, 62, 185-190 | 4.3 | 2 |
| 9 | Thinning and opening of carbon nanotubes by oxidation using carbon dioxide. *Nature*, **1993**, 362, 520-522 | 50.4 | 483 |
| 8 | The structure and growth of C60 platelets. *Chemical Physics Letters*, **1992**, 199, 631-634 | 2.5 | 11 |
| 7 | Direct imaging of an adsorbed layer by high-resolution electron microscopy. *Nature*, **1988**, 332, 617-620 | 50.4 | 46 |
| 6 | The morphology of platinum catalyst particles studied by transmission electron microscopy. *Surface Science*, **1987**, 185, L459-L466 | 1.8 | 25 |
| 5 | The morphology of platinum catalyst particles studied by transmission electron microscopy. *Surface Science Letters*, **1987**, 185, L459-L466 | | 1 |
| 4 | Sulphur-induced faceting of platinum catalyst particles. *Nature*, **1986**, 323, 792-794 | 50.4 | 77 |

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| 3 | The sintering of platinum particles in an alumina-supported catalyst: Further transmission electron microscopy studies. *Journal of Catalysis*, **1986**, 97, 527-542 | 7.3 | 81 |
| 2 | Strong faceting of platinum catalyst particles. *Applied Catalysis*, **1985**, 16, 439-442 | | 9 |
| 1 | The sintering of an alumina-supported platinum catalyst studied by transmission electron microscopy. *Journal of Catalysis*, **1983**, 82, 127-146 | 7.3 | 49 |