# John Brian Pendry

List of Publications by Year
in descending order

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|---|---|---|---|
| 373 papers | 82,741 citations | 2963 93 h-index | 350 284 g-index |
| 381 all docs | 381 docs citations | 381 times ranked | 24773 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Negative Refraction Makes a Perfect Lens. Physical Review Letters, 2000, 85, 3966-3969. | 2.9 | 10,785 |
| 2 | Controlling Electromagnetic Fields. Science, 2006, 312, 1780-1782. | 6.0 | 7,600 |
| 3 | Magnetism from conductors and enhanced nonlinear phenomena. IEEE Transactions on Microwave Theory and Techniques, 1999, 47, 2075-2084. | 2.9 | 7,290 |
| 4 | Metamaterial Electromagnetic Cloak at Microwave Frequencies. Science, 2006, 314, 977-980. | 6.0 | 6,680 |
| 5 | Extremely Low Frequency Plasmons in Metallic Mesostructures. Physical Review Letters, 1996, 76, 4773-4776. | 2.9 | 3,820 |
| 6 | Metamaterials and Negative Refractive Index. Science, 2004, 305, 788-792. | 6.0 | 3,779 |
| 7 | Mimicking Surface Plasmons with Structured Surfaces. Science, 2004, 305, 847-848. | 6.0 | 2,754 |
| 8 | Theory of Extraordinary Optical Transmission through Subwavelength Hole Arrays. Physical Review Letters, 2001, 86, 1114-1117. | 2.9 | 1,559 |
| 9 | Terahertz Magnetic Response from Artificial Materials. Science, 2004, 303, 1494-1496. | 6.0 | 1,437 |
| 10 | A Chiral Route to Negative Refraction. Science, 2004, 306, 1353-1355. | 6.0 | 1,331 |
| 11 | Transmission Resonances on Metallic Gratings with Very Narrow Slits. Physical Review Letters, 1999, 83, 2845-2848. | 2.9 | 1,277 |
| 12 | Hiding under the Carpet: A New Strategy for Cloaking. Physical Review Letters, 2008, 101, 203901. | 2.9 | 1,270 |
| 13 | Low frequency plasmons in thin-wire structures. Journal of Physics Condensed Matter, 1998, 10, 4785-4809. | 0.7 | 1,185 |
| 14 | Three-Dimensional Invisibility Cloak at Optical Wavelengths. Science, 2010, 328, 337-339. | 6.0 | 1,134 |
| 15 | Reliability factors for LEED calculations. Journal of Physics C: Solid State Physics, 1980, 13, 937-944. | 1.5 | 1,021 |
| 16 | Theory of the extended x-ray absorption fine structure. Physical Review B, 1975, 11, 2795-2811. | 1.1 | 1,011 |
| 17 | Probing the Ultimate Limits of Plasmonic Enhancement. Science, 2012, 337, 1072-1074. | 6.0 | 981 |
| 18 | Surfaces with holes in them: new plasmonic metamaterials. Journal of Optics, 2005, 7, S97-S101. | 1.5 | 920 |

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| 19 | Collective Theory for Surface Enhanced Raman Scattering. Physical Review Letters, 1996, 77, 1163-1166. | 2.9 | 867 |
| 20 | All-angle negative refraction without negative effective index. Physical Review B, 2002, 65, . | 1.1 | 821 |
| 21 | Calculation of material properties and ray tracing in transformation media. Optics Express, 2006, 14, 9794. | 1.7 | 751 |
| 22 | Full-wave simulations of electromagnetic cloaking structures. Physical Review E, 2006, 74, 036621. | 0.8 | 717 |
| 23 | Calculation of photon dispersion relations. Physical Review Letters, 1992, 69, 2772-2775. | 2.9 | 656 |
| 24 | The existence and detection of Rydberg states at surfaces. Journal of Physics C: Solid State Physics, 1978, 11, 2065-2075. | 1.5 | 585 |
| 25 | Saturation of the Magnetic Response of Split-Ring Resonators at Optical Frequencies. Physical Review Letters, 2005, 95, 223902. | 2.9 | 559 |
| 26 | Directed subwavelength imaging using a layered metal-dielectric system. Physical Review B, 2006, 74, . | 1.1 | 509 |
| 27 | Active nanoplasmonic metamaterials. Nature Materials, 2012, 11, 573-584. | 13.3 | 502 |
| 28 | Theory of photoemission. Surface Science, 1976, 57, 679-705. | 0.8 | 477 |
| 29 | Photonic Band Structures. Journal of Modern Optics, 1994, 41, 209-229. | 0.6 | 462 |
| 30 | Microstructured Magnetic Materials for RF Flux Guides in Magnetic Resonance Imaging. Science, 2001, 291, 849-851. | 6.0 | 432 |
| 31 | Negative refraction. Contemporary Physics, 2004, 45, 191-202. | 0.8 | 430 |
| 32 | Refraction and geometry in Maxwell's equations. Journal of Modern Optics, 1996, 43, 773-793. | 0.6 | 403 |
| 33 | Subwavelength imaging in photonic crystals. Physical Review B, 2003, 68, . | 1.1 | 395 |
| 34 | Radiative exchange of heat between nanostructures. Journal of Physics Condensed Matter, 1999, 11, 6621-6633. | 0.7 | 353 |
| 35 | Plasmonic Light-Harvesting Devices over the Whole Visible Spectrum. Nano Letters, 2010, 10, 2574-2579. | 4.5 | 345 |
| 36 | Calculation of X-ray absorption near-edge structure, XANES. Computer Physics Communications, 1982, 25, 193-205. | 3.0 | 341 |

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| 37 | Structure of CO Adsorbed on Cu(100) and Ni(100). Physical Review Letters, 1979, 43, 363-366. | 2.9 | 310 |
| 38 | Transformation Optics and Subwavelength Control of Light. Science, 2012, 337, 549-552. | 6.0 | 310 |
| 39 | Theory of image states at metal surfaces. Progress in Surface Science, 1989, 32, 111-159. | 3.8 | 287 |
| 40 | Localized Spoof Plasmons Arise while Texturing Closed Surfaces. Physical Review Letters, 2012, 108, 223905. | 2.9 | 280 |
| 41 | Imaging the near field. Journal of Modern Optics, 2003, 50, 1419-1430. | 0.6 | 263 |
| 42 | Calculation of photoemission spectra for surfaces of solids. Computer Physics Communications, 1980, 19, 69-92. | 3.0 | 262 |
| 43 | Effective Medium Theory of the Optical Properties of Aligned Carbon Nanotubes. Physical Review Letters, 1997, 78, 4289-4292. | 2.9 | 262 |
| 44 | Tensor LEED: A Technique for High-Speed Surface-Structure Determination. Physical Review Letters, 1986, 57, 2951-2954. | 2.9 | 260 |
| 45 | Focusing light using negative refraction. Journal of Physics Condensed Matter, 2003, 15, 6345-6364. | 0.7 | 246 |
| 46 | Removal of absorption and increase in resolution in a near-field lens via optical gain. Physical Review B, 2003, 67, . | 1.1 | 239 |
| 47 | A program for calculating photonic band structures and transmission coefficients of complex structures. Computer Physics Communications, 1995, 85, 306-322. | 3.0 | 233 |
| 48 | Shearing the vacuum - quantum friction. Journal of Physics Condensed Matter, 1997, 9, 10301-10320. | 0.7 | 233 |
| 49 | Electromagnetic analysis of cylindrical invisibility cloaks and the mirage effect. Optics Letters, 2007, 32, 1069. | 1.7 | 232 |
| 50 | Surface Plasmons and Nonlocality: A Simple Model. Physical Review Letters, 2013, 111, 093901. | 2.9 | 223 |
| 51 | Quantum limits to the flow of information and entropy. Journal of Physics A, 1983, 16, 2161-2171. | 1.6 | 200 |
| 52 | XANES: Determination of bond angles and multi-atom correlations in order and disordered systems. Solid State Communications, 1981, 38, 159-162. | 0.9 | 196 |
| 53 | An update of DLXANES, the calculation of X-ray absorption near-edge structure. Computer Physics Communications, 1986, 40, 421-440. | 3.0 | 196 |
| 54 | Multiple-scattering resonances and structural effects in the x-ray-absorption near-edge spectra of Fe II and Fe III hexacyanide complexes. Physical Review B, 1982, 26, 6502-6508. | 1.1 | 194 |

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| 55 | Transformation-Optics Description of Nonlocal Effects in Plasmonic Nanostructures. Physical Review Letters, 2012, 108, 106802. | 2.9 | 188 |
| 56 | Time Reversal and Negative Refraction. Science, 2008, 322, 71-73. | 6.0 | 186 |
| 57 | Symmetry and transport of waves in one-dimensional disordered systems. Advances in Physics, 1994, 43, 461-542. | 35.9 | 178 |
| 58 | Magnetic activity at infrared frequencies in structured metallic photonic crystals. Journal of Physics Condensed Matter, 2002, 14, 6383-6394. | 0.7 | 175 |
| 59 | Calculating photonic band structure. Journal of Physics Condensed Matter, 1996, 8, 1085-1108. | 0.7 | 174 |
| 60 | Photonics of time-varying media. Advanced Photonics, 2022, 4, . | 6.2 | 169 |
| 61 | Guiding, Focusing, and Sensing on the Subwavelength Scale Using Metallic Wire Arrays. Physical Review Letters, 2007, 99, 053903. | 2.9 | 168 |
| 62 | Near-infrared photonic band gaps and nonlinear effects in negative magnetic metamaterials. Physical Review B, 2004, 69, . | 1.1 | 166 |
| 63 | Metamaterials at zero frequency. Journal of Physics Condensed Matter, 2007, 19, 076208. | 0.7 | 160 |
| 64 | New Probe for Unoccupied Bands at Surfaces. Physical Review Letters, 1980, 45, 1356-1358. | 2.9 | 156 |
| 65 | The asymmetric lossy near-perfect lens. Journal of Modern Optics, 2002, 49, 1747-1762. | 0.6 | 156 |
| 66 | Quasi-extended electron states in strongly disordered systems. Journal of Physics C: Solid State Physics, 1987, 20, 733-742. | 1.5 | 155 |
| 67 | Theory of inverse photoemission. Journal of Physics C: Solid State Physics, 1981, 14, 1381-1391. | 1.5 | 151 |
| 68 | Determination of Adsorbate Geometries from Intramolecular Scattering in Deep-Core-Level X-Ray Photoemission: CO on Ni(001). Physical Review Letters, 1979, 42, 1545-1548. | 2.9 | 148 |
| 69 | An acoustic metafluid: realizing a broadband acoustic cloak. New Journal of Physics, 2008, 10, 115032. | 1.2 | 144 |
| 70 | Absorption profile at surfaces. Journal of Physics C: Solid State Physics, 1975, 8, 2936-2942. | 1.5 | 141 |
| 71 | Negative refraction of modulated electromagnetic waves. Applied Physics Letters, 2002, 81, 2713-2715. | 1.5 | 136 |
| 72 | Layer Korringa-Kohn-Rostoker technique for surface and interface electronic properties. Physical Review B, 1989, 40, 12164-12175. | 1.1 | 135 |

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| 73 | The theory of tensor LEED. Surface Science, 1989, 219, 355-372. | 0.8 | 127 |
| 74 | A leed determination of the structure of cobalt overlayers grown on a single-crystal Cu(001) substrate. Surface Science, 1987, 187, 327-338. | 0.8 | 126 |
| 75 | A d.c. magnetic metamaterial. Nature Materials, 2008, 7, 295-297. | 13.3 | 123 |
| 76 | Transformation-optical design of sharp waveguide bends and corners. Applied Physics Letters, 2008, 93, . | 1.5 | 123 |
| 77 | Interaction between Plasmonic Nanoparticles Revisited with Transformation Optics. Physical Review Letters, 2010, 105, 233901. | 2.9 | 123 |
| 78 | SEXAFS without X-rays. Surface Science, 1984, 145, 33-47. | 0.8 | 118 |
| 79 | Transformation-designed optical elements. Optics Express, 2007, 15, 14772. | 1.7 | 114 |
| 80 | Positively negative. Nature, 2003, 423, 22-23. | 13.7 | 112 |
| 81 | Rotational Quantum Friction. Physical Review Letters, 2012, 109, 123604. | 2.9 | 112 |
| 82 | Diffuse LEED and Surface Crystallography. Physical Review Letters, 1985, 55, 2312-2315. | 2.9 | 111 |
| 83 | Layer Korringa-Kohn-Rostoker electronic structure code for bulk and interface geometries. Computer Physics Communications, 1990, 60, 365-389. | 3.0 | 111 |
| 84 | Determination of Local Atomic Arrangements at Surfaces from Near-Edge X-Ray-Absorption Fine-Structure Studies: O on Ni(100). Physical Review Letters, 1983, 51, 2052-2055. | 2.9 | 110 |
| 85 | Structure of CO adsorbed on Ni (100). Surface Science, 1978, 71, 75-85. | 0.8 | 109 |
| 86 | Theory of surface states: General criteria for their existence. Surface Science, 1975, 49, 87-105. | 0.8 | 107 |
| 87 | Near-field lenses in two dimensions. Journal of Physics Condensed Matter, 2002, 14, 8463-8479. | 0.7 | 106 |
| 88 | Fresnel drag in spaceâ€“time-modulated metamaterials. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 24943-24948. | 3.3 | 106 |
| 89 | Multiple coincidences in surface structure determinations. Solid State Communications, 1975, 16, 563-566. | 0.9 | 101 |
| 90 | Calculating photonic Greenâ€™s functions using a nonorthogonal finite-difference time-domain method. Physical Review B, 1998, 58, 7252-7259. | 1.1 | 101 |

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| 91 | Quantum frictionâ€“fact or fiction?. New Journal of Physics, 2010, 12, 033028. | 1.2 | 101 |
| 92 | Transforming the optical landscape. Science, 2015, 348, 521-524. | 6.0 | 101 |
| 93 | The statistics of one-dimensional resistances. Journal of Physics C: Solid State Physics, 1984, 17, 4327-4344. | 1.5 | 96 |
| 94 | Capturing photons with transformation optics. Nature Physics, 2013, 9, 518-522. | 6.5 | 90 |
| 95 | Determination of Atomic Positions in theC(2Ã—2)Oxygen Structure on a Nickel (100) Surface by a Dynamical Low-Energy Electron-Diffraction Method. Physical Review Letters, 1973, 31, 595-598. | 2.9 | 89 |
| 96 | Adsorption and reaction of CO2 on Ni{110}: X-ray photoemission, near-edge X-ray absorption fine-structure and diffuse leed studies. Surface Science, 1988, 206, 1-19. | 0.8 | 89 |
| 97 | Collection and Concentration of Light by Touching Spheres: A Transformation Optics Approach. Physical Review Letters, 2010, 105, 266807. | 2.9 | 89 |
| 98 | Low energy electron diffraction from Na(110) and Na2O(111) surfaces. Surface Science, 1977, 65, 539-551. | 0.8 | 87 |
| 99 | Broadband Nonreciprocal Amplification in Luminal Metamaterials. Physical Review Letters, 2019, 123, 206101. | 2.9 | 87 |
| 100 | The application of pseudopotentials to low-energy electron diffraction II: Calculation of the reflected intensities. Journal of Physics C: Solid State Physics, 1969, 2, 2273-2282. | 1.5 | 86 |
| 101 | Refining the perfect lens. Physica B: Condensed Matter, 2003, 338, 329-332. | 1.3 | 86 |
| 102 | Taming spatial dispersion in wire metamaterial. Journal of Physics Condensed Matter, 2008, 20, 295222. | 0.7 | 86 |
| 103 | Interpretation of diffuse low-energy electron diffraction intensities. Physical Review B, 1985, 31, 1216-1218. | 1.1 | 85 |
| 104 | Surface Plasmons and Singularities. Nano Letters, 2010, 10, 4186-4191. | 4.5 | 85 |
| 105 | Applications of tensor LEED. Surface Science, 1989, 219, 373-394. | 0.8 | 84 |
| 106 | Electromagnetic forces in photonic crystals. Physical Review B, 1999, 60, 2363-2374. | 1.1 | 84 |
| 107 | Broadband Light Harvesting Nanostructures Robust to Edge Bluntness. Physical Review Letters, 2012, 108, 023901. | 2.9 | 82 |
| 108 | Ion core scattering and low energy electron diffraction. I. Journal of Physics C: Solid State Physics, 1971, 4, 2501-2513. | 1.5 | 80 |

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| 109 | Layer Method for Band Structure of Layer Compounds. Physical Review Letters, 1973, 31, 1400-1403. | 2.9 | 80 |
| 110 | Atomic origin of structure in EXAFS experiments. Journal of Physics C: Solid State Physics, 1978, 11, 633-642. | 1.5 | 80 |
| 111 | Surface states ond-band metals. Zeitschrift FÃ¼r Physik A, 1970, 235, 75-84. | 0.9 | 78 |
| 112 | The structure of c(2 Ã— 2)CO adsorbed on copper and nickel (001) surfaces. Journal of Physics C: Solid State Physics, 1980, 13, 3547-3561. | 1.5 | 78 |
| 113 | Electronic Density of States at Transition-Metal Surfaces. Physical Review Letters, 1972, 29, 868-871. | 2.9 | 77 |
| 114 | Direct Methods in Surface Crystallography. Physical Review Letters, 1988, 61, 2953-2956. | 2.9 | 73 |
| 115 | Electromagnetic materials enter the negative age. Physics World, 2001, 14, 47-51. | 0.0 | 73 |
| 116 | Theory of the scanning tunnelling microscope. Journal of Physics Condensed Matter, 1991, 3, 4313-4321. | 0.7 | 72 |
| 117 | New Perturbation Theory for Low-Energy Electron-Diffraction Intensities. Physical Review Letters, 1971, 27, 856-859. | 2.9 | 71 |
| 118 | Removing the limits to accurate band-structure determination by photoemission. Journal of Physics C: Solid State Physics, 1983, 16, 423-431. | 1.5 | 69 |
| 119 | Toward photonic-crystal metamaterials: Creating magnetic emitters in photonic crystals. Applied Physics Letters, 2003, 82, 1069-1071. | 1.5 | 69 |
| 120 | Surface structures from low energy electron diffraction. (Overlayer systems). Journal of Physics C: Solid State Physics, 1972, 5, L41-L45. | 1.5 | 67 |
| 121 | Comment on â€œWave Refraction in Negative-Index Media: Always Positive and Very Inhomogeneousâ€• Physical Review Letters, 2003, 90, 029703; discussion 029704. | 2.9 | 66 |
| 122 | Broadband plasmonic device concentrating the energy at the nanoscale: The crescent-shaped cylinder. Physical Review B, 2010, 82, . | 1.1 | 65 |
| 123 | Interaction of surface states with rows of adsorbed atoms and other one-dimensional scatterers. Physical Review B, 1994, 50, 18607-18620. | 1.1 | 64 |
| 124 | Surface Crystallographic Information Service. , 1987, , . | | 64 |
| 125 | Existence of Generalized Surface States. Physical Review Letters, 1973, 31, 637-639. | 2.9 | 63 |
| 126 | Ion core scattering and low energy electron diffraction. II. Journal of Physics C: Solid State Physics, 1971, 4, 2514-2523. | 1.5 | 62 |

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| 127 | Energy loss by charged particles in complex media. Physical Review B, 1994, 50, 5062-5073. | 1.1 | 61 |
| 128 | Spherical perfect lens: Solutions of Maxwellâ€™s equations for spherical geometry. Physical Review B, 2004, 69, . | 1.1 | 61 |
| 129 | Adsorbate induced reconstruction phase p(2 Ã— 2)O/Ni(100). Surface Science, 1990, 225, 242-248. | 0.8 | 58 |
| 130 | The application of pseudopotentials to low-energy electron diffraction III: The simplifying effect of inelastic scattering. Journal of Physics C: Solid State Physics, 1969, 2, 2283-2289. | 1.5 | 57 |
| 131 | Maximal fluctuations â€" A new phenomenon in disordered systems. Physica A: Statistical Mechanics and Its Applications, 1990, 168, 400-407. | 1.2 | 57 |
| 132 | Direct methods in surface crystallography. Surface Science, 1990, 230, 137-149. | 0.8 | 57 |
| 133 | Extraction of crystal parameters from EXAFS spectra. Solid State Communications, 1976, 20, 287-290. | 0.9 | 55 |
| 134 | Homogenization Theory of Space-Time Metamaterials. Physical Review Applied, 2021, 16, . | 1.5 | 54 |
| 135 | Fast perturbation schemes for low energy electron diffraction spectra. Journal of Physics C: Solid State Physics, 1971, 4, 3095-3106. | 1.5 | 53 |
| 136 | Theory of secondary electron emission. Solid State Communications, 1978, 26, 519-521. | 0.9 | 53 |
| 137 | Compacted dimensions and singular plasmonic surfaces. Science, 2017, 358, 915-917. | 6.0 | 53 |
| 138 | Mie resonances and bonding in photonic crystals. Europhysics Letters, 1997, 40, 613-618. | 0.7 | 52 |
| 139 | Perfect corner reflector. Optics Letters, 2005, 30, 1204. | 1.7 | 52 |
| 140 | The statistics of the conductance of one-dimensional disordered chains. Journal of Physics C: Solid State Physics, 1984, 17, 5707-5728. | 1.5 | 51 |
| 141 | X-ray absorption near-edge structure of adsorbate-induced reconstruction: (2 Ã— 1)O on Cu(110). Surface Science, 1986, 178, 679-685. | 0.8 | 51 |
| 142 | Sub-wavelength imaging at radio frequency. Journal of Physics Condensed Matter, 2006, 18, L315-L321. | 0.7 | 51 |
| 143 | Phonon-assisted heat transfer between vacuum-separated surfaces. Physical Review B, 2016, 94, . | 1.1 | 51 |
| 144 | LEED intensity measurements and surface structures: The dynamical approach (Illustrated by) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 T | 1.5 | 50 |

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| 145 | Linear-superposition method for the multiple-scattering problem in low-energy-photoelectron diffraction. Physical Review B, 1993, 48, 9054-9057. | 1.1 | 49 |
| 146 | Investigation of surface atom vibrations by tensor LEED. Surface Science, 1994, 301, 346-352. | 0.8 | 49 |
| 147 | The application of pseudopotentials to low-energy electron diffraction I. Calculation of the potential and `inner potential'. Journal of Physics C: Solid State Physics, 1969, 2, 1215-1221. | 1.5 | 48 |
| 148 | 1D localisation and the symmetric group. Journal of Physics C: Solid State Physics, 1982, 15, 4821-4834. | 1.5 | 48 |
| 149 | Transformation-optics insight into nonlocal effects in separated nanowires. Physical Review B, 2012, 86, . | 1.1 | 48 |
| 150 | A disordered model for the W(100)1Ã—1 surface. Surface Science, 1988, 193, L1-L6. | 0.8 | 46 |
| 151 | Wood Anomalies and Surface-Wave Excitation with a Time Grating. Physical Review Letters, 2020, 125, 127403. | 2.9 | 46 |
| 152 | Theory of spin polarised photoemission from nickel. Journal of Physics C: Solid State Physics, 1978, 11, 4615-4622. | 1.5 | 45 |
| 153 | Green's functions for Maxwell's equations: application to spontaneous emission. Optical and Quantum Electronics, 1997, 29, 199-216. | 1.5 | 45 |
| 154 | Electromagnetic contribution to surface-enhanced Raman scattering from rough metal surfaces: A transformation optics approach. Physical Review B, 2011, 83, . | 1.1 | 45 |
| 155 | Reflectivity of LiquidHe4Surfaces toHe4Atoms. Physical Review Letters, 1976, 37, 561-563. | 2.9 | 44 |
| 156 | Silver-filled carbon nanotubes used as spectroscopic enhancers. Physical Review B, 1998, 58, 6783-6786. | 1.1 | 44 |
| 157 | A program for calculating photonic band structures, Green's functions and transmission/reflection coefficients using a non-orthogonal FDTD method. Computer Physics Communications, 2000, 128, 590-621. | 3.0 | 44 |
| 158 | Crystalline Xenonâ€"A Kinematic Low-Energy Electron-Diffraction Spectrum. Physical Review Letters, 1971, 26, 189-191. | 2.9 | 42 |
| 159 | Theory of Three-Dimensional Nanocrescent Light Harvesters. Nano Letters, 2012, 12, 5946-5953. | 4.5 | 42 |
| 160 | On the temperature dependence in photoemission from metal surfaces. Journal of Physics C: Solid State Physics, 1981, 14, 3089-3097. | 1.5 | 41 |
| 161 | Roadmap on multimode light shaping. Journal of Optics (United Kingdom), 2022, 24, 013001. | 1.0 | 41 |
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| 163 | Photoemission from transition metal surfaces. Journal of Physics F: Metal Physics, 1978, 8, 1009-1017. | 1.6 | 40 |
| 164 | Comment on "Experimental Study of Multiple Scattering in X-Ray-Absorption Near-Edge Structure". Physical Review Letters, 1985, 54, 2725-2725. | 2.9 | 40 |
| 165 | Tensor LEED I: A technique for high speed surface structure determination by low energy electron diffraction. TLEED1. Computer Physics Communications, 1989, 54, 137-156. | 3.0 | 40 |
| 166 | Comment on â€œLeft-Handed Materials Do Not Make a Perfect Lensâ€• Physical Review Letters, 2003, 91, 099701; author reply 099702. | 2.9 | 40 |
| 167 | All smoke and metamaterials. Nature, 2009, 460, 579-580. | 13.7 | 40 |
| 168 | Conformal transformation applied to plasmonics beyond the quasistatic limit. Physical Review B, 2010, 82, . | 1.1 | 40 |
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| 170 | The clean and H-induced reconstruction of W(100) studied by LEED at slanting primary bean incidence. Surface Science, 1992, 271, 416-426. | 0.8 | 39 |
| 171 | Coverage-dependent DLEED analysis of the adsorption structure of K on Ni(100). Surface Science, 1993, 293, 47-56. | 0.8 | 39 |
| 172 | Transformation-Invariant Metamaterials. Physical Review Letters, 2019, 123, 067701. | 2.9 | 39 |
| 173 | The evolution of waves in disordered media. Journal of Physics C: Solid State Physics, 1982, 15, 3493-3511. | 1.5 | 38 |
| 174 | On the effective mass of electrons at surfaces. Surface Science, 1986, 166, 57-68. | 0.8 | 38 |
| 175 | Pendry Replies:. Physical Review Letters, 2001, 87, . | 2.9 | 38 |
| 176 | LEED-structure analysis of Ni(100)c(4 Ã— 2)-K. Surface Science, 1992, 275, 185-189. | 0.8 | 37 |
| 177 | A theoretical study of poisoning in heterogeneous catalysis; discussion of the role of electronegativity and a comparison with experimental results of Goodman et al. on CO adsorption and methanation on Ni(100). Surface Science, 1986, 175, 263-275. | 0.8 | 36 |
| 178 | Electrons at Disordered Surfaces and1fNoise. Physical Review Letters, 1986, 57, 2983-2986. | 2.9 | 36 |
| 179 | Tensor LEED II: A technique for high speed surface structure determination by low energy electron diffraction. TLEED2. Computer Physics Communications, 1989, 54, 157-166. | 3.0 | 36 |
| 180 | Photonic dispersion surfaces. Journal of Physics Condensed Matter, 1995, 7, 2217-2224. | 0.7 | 35 |

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| 181 | Diffuse low-energy electron diffraction. Progress in Surface Science, 1996, 52, 53-124. | 3.8 | 35 |
| 182 | Shrinking optical devices. New Journal of Physics, 2009, 11, 073033. | 1.2 | 35 |
| 183 | Reply to comment on â€˜Quantum frictionâ€”fact or fiction?â€™. New Journal of Physics, 2010, 12, 068002. | 1.2 | 35 |
| 184 | Theory of positrons at surfaces. Journal of Physics C: Solid State Physics, 1980, 13, 1159-1174. | 1.5 | 34 |
| 185 | Chiral Swiss rolls show a negative refractive index. Journal of Physics Condensed Matter, 2009, 21, 292201. | 0.7 | 34 |
| 186 | Graphene, plasmons and transformation optics. Journal of Optics (United Kingdom), 2016, 18, 044024. | 1.0 | 34 |
| 187 | Can sheared surfaces emit light?. Journal of Modern Optics, 1998, 45, 2389-2408. | 0.6 | 33 |
| 188 | Effective electronic response of a system of metallic cylinders. Physical Review B, 1998, 57, 15261-15266. | 1.1 | 33 |
| 189 | The chain method for electron scattering in lattices. Journal of Physics C: Solid State Physics, 1975, 8, 2048-2058. | 1.5 | 32 |
| 190 | Electron energy loss spectroscopy. Calculation of the impact scattering from W(100)p(1 Ã— 1)H. Journal of Physics C: Solid State Physics, 1981, 14, 3995-4007. | 1.5 | 32 |
| 191 | Off-diagonal disorder and 1D localisation. Journal of Physics C: Solid State Physics, 1982, 15, 5773-5778. | 1.5 | 32 |
| 192 | X-ray absorption near edge structure (XANES) for CO, CN and deoxyhaemoglobin: geometrical information.. EMBO Journal, 1983, 2, 1441-1443. | 3.5 | 32 |
| 193 | Influence of poisons and promoters on local bonding of CO to Ni(100). Surface Science, 1985, 162, 322-328. | 0.8 | 32 |
| 194 | Quantitative multiple-scattering analysis of near-edge x-ray-absorption fine structure: c(22)O on Cu(100). Physical Review B, 1987, 35, 7756-7759. | 1.1 | 31 |
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| 196 | Extreme chirality in Swiss roll metamaterials. Journal of Physics Condensed Matter, 2009, 21, 376003. | 0.7 | 31 |
| 197 | Order-Nphotonic band structures for metals and other dispersive materials. Physical Review B, 1999, 59, 1874-1877. | 1.1 | 30 |
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