

Richard Taylor

List of Publications by Citations

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|-------------------|-----------------------|----------------|-----------------|
| 64 papers | 822 citations | 14 h-index | 27 g-index |
| 75 ext. papers | 921 ext. citations | 3.8 avg, IF | 4.34 L-index |

| # | Paper | IF | Citations |
|----|---|------|-----------|
| 64 | Fractal dimension of landscape silhouette outlines as a predictor of landscape preference. <i>Journal of Environmental Psychology</i> , 2004 , 24, 247-255 | 6.7 | 166 |
| 63 | Quantum ratchets and quantum heat pumps. <i>Applied Physics A: Materials Science and Processing</i> , 2002 , 75, 237-246 | 2.6 | 74 |
| 62 | Authenticating Pollock paintings using fractal geometry. <i>Pattern Recognition Letters</i> , 2007 , 28, 695-702 | 4.7 | 66 |
| 61 | Reduction of Physiological Stress Using Fractal Art and Architecture. <i>Leonardo</i> , 2006 , 39, 245-251 | 0.1 | 56 |
| 60 | Universal conductance fluctuations in the magnetoresistance of submicron-size n+-GaAs wires and laterally confined nGaAs/(AlGa)As heterostructures. <i>Surface Science</i> , 1988 , 196, 52-58 | 1.8 | 53 |
| 59 | Quantum transport in open mesoscopic cavities. <i>Chaos, Solitons and Fractals</i> , 1997 , 8, 1299-1324 | 9.3 | 30 |
| 58 | A Complex Story: Universal Preference vs. Individual Differences Shaping Aesthetic Response to Fractals Patterns. <i>Frontiers in Human Neuroscience</i> , 2016 , 10, 213 | 3.3 | 23 |
| 57 | Fractal Expressionism Where Art Meets Science 2003 , 117-144 | | 22 |
| 56 | Science in culture. <i>Nature</i> , 2001 , 410, 18 | 50.4 | 21 |
| 55 | The effect of coulomb interactions on the magnetoconductance oscillations of quantum dots. <i>Solid State Communications</i> , 1992 , 84, 631-634 | 1.6 | 21 |
| 54 | Fractals in architecture: The visual interest, preference, and mood response to projected fractal light patterns in interior spaces. <i>Journal of Environmental Psychology</i> , 2019 , 61, 57-70 | 6.7 | 19 |
| 53 | Self-similar conductance fluctuations in a Sinai billiard with a mixed chaotic phase space. <i>Physica B: Condensed Matter</i> , 1998 , 249-251, 334-338 | 2.8 | 16 |
| 52 | Universal conductance fluctuations in the magnetoresistance of submicron n+GaAs wires. <i>Superlattices and Microstructures</i> , 1986 , 2, 381-383 | 2.8 | 15 |
| 51 | Classical and quantum transmission effects in submicron-size dots. <i>Surface Science</i> , 1992 , 263, 247-252 | 1.8 | 14 |
| 50 | Australian national pulsed magnet laboratory for condensed matter physics research. <i>Physica B: Condensed Matter</i> , 1994 , 201, 565-571 | 2.8 | 13 |
| 49 | NSF program benefits schools in need. <i>Science</i> , 2011 , 332, 173-4 | 33.3 | 12 |
| 48 | The extreme quantum regime of 2D electron and hole systems. <i>Physica B: Condensed Matter</i> , 1994 , 201, 301-314 | 2.8 | 12 |

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|----|---|-----|----|
| 47 | Relationship between Fractal Dimension and Spectral Scaling Decay Rate in Computer-Generated Fractals. <i>Symmetry</i> , 2016 , 8, 66 | 2.7 | 11 |
| 46 | The Potential of Biophilic Fractal Designs to Promote Health and Performance: A Review of Experiments and Applications. <i>Sustainability</i> , 2021 , 13, 823 | 3.6 | 11 |
| 45 | Is it the boundaries or disorder that dominates electron transport in semiconductor \square billiards? <i>Fortschritte Der Physik</i> , 2013 , 61, 332-347 | 5.7 | 10 |
| 44 | Investigation of the current injection properties of ohmic spikes in nanostructures. <i>Superlattices and Microstructures</i> , 1998 , 24, 337-345 | 2.8 | 10 |
| 43 | Experimental investigation of quantum point contacts separated by open and enclosed regions. <i>Superlattices and Microstructures</i> , 1992 , 11, 219-222 | 2.8 | 10 |
| 42 | The Abstract Expressionists and Les Automatistes: A shared multi-fractal depth?. <i>Signal Processing</i> , 2013 , 93, 573-578 | 4.4 | 9 |
| 41 | Fractal images induce fractal pupil dilations and constrictions. <i>International Journal of Psychophysiology</i> , 2014 , 93, 316-21 | 2.9 | 8 |
| 40 | Temperature dependent fractal dimension of magneto-conductance fluctuations in semiconductor billiards. <i>Superlattices and Microstructures</i> , 1999 , 25, 157-161 | 2.8 | 8 |
| 39 | Quantum ratchets act as heat pumps. <i>Physica B: Condensed Matter</i> , 2002 , 314, 464-468 | 2.8 | 7 |
| 38 | A physical explanation for the origin of self-similar magnetoconductance fluctuations in semiconductor billiards. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000 , 7, 726-730 | 3 | 7 |
| 37 | Assessing the Visual Comfort, Visual Interest of Sunlight Patterns, and View Quality under Different Window Conditions in an Open-Plan Office. <i>LEUKOS - Journal of Illuminating Engineering Society of North America</i> , 2021 , 17, 321-337 | 3.5 | 7 |
| 36 | The role of lead openings in regular mesoscopic billiards. <i>Superlattices and Microstructures</i> , 1996 , 20, 287-295 | 2.8 | 6 |
| 35 | Electron heating in a submicron-size n+ GaAs wire. <i>Superlattices and Microstructures</i> , 1989 , 5, 575-578 | 2.8 | 6 |
| 34 | Vision of beauty. <i>Physics World</i> , 2011 , 24, 22-27 | 0.5 | 5 |
| 33 | The influence of confining wall profile on quantum interference effects in etched Ga _{0.25} In _{0.75} As/InP billiards. <i>Superlattices and Microstructures</i> , 2003 , 34, 179-184 | 2.8 | 5 |
| 32 | Fabrication and characterisation of multi-level lateral nano-devices. <i>Surface Science</i> , 1994 , 305, 648-653 | 1.8 | 5 |
| 31 | The topological transition from a Corbino to Hall bar geometry. <i>Superlattices and Microstructures</i> , 1996 , 20, 651-656 | 2.8 | 4 |
| 30 | Anti-collimation of ballistic electrons by a potential barrier. <i>Surface Science</i> , 1994 , 305, 448-452 | 1.8 | 4 |

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| 29 | A fascination with fractals. <i>Physics World</i> , 2013 , 26, 37-41 | 0.5 | 3 |
| 28 | Aharonov-Bohm oscillations in quantum dots: precise departures from periodicity. <i>Superlattices and Microstructures</i> , 1997 , 22, 57-63 | 2.8 | 3 |
| 27 | Wave function scarring and magnetotransport in quantum dots. <i>Physica B: Condensed Matter</i> , 1998 , 249-251, 353-357 | 2.8 | 3 |
| 26 | Collimation effects in quantum point contacts. <i>Physica B: Condensed Matter</i> , 1991 , 175, 243-246 | 2.8 | 3 |
| 25 | Personal reflections on Jackson Pollock's fractal paintings. <i>Historia, Ciencias, Saude - Manguinhos</i> , 2006 , 13, 109-123 | 0.2 | 3 |
| 24 | Experimental and theoretical investigations of clusters in the magneto-fingerprints of Sinai billiards. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1998 , 51, 212-215 | 3.1 | 2 |
| 23 | Carrier density saturation in a heterostructure. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1754-1756 | 3 | 2 |
| 22 | Chaotic ray dynamics and fast optical switching in micro-cavities with a graded refractive index. <i>Physica B: Condensed Matter</i> , 1999 , 272, 484-487 | 2.8 | 2 |
| 21 | Transition from chaotic to regular quantum scattering in mesoscopic billiards with nominally regular geometry. <i>Physica B: Condensed Matter</i> , 1996 , 227, 148-151 | 2.8 | 2 |
| 20 | Geometry induced quantum interference: a continuous evolution from square to Sinai billiard. <i>Superlattices and Microstructures</i> , 1996 , 20, 297-305 | 2.8 | 2 |
| 19 | A tunable ballistic electron cavity exhibiting geometry-induced weak localisation. <i>Superlattices and Microstructures</i> , 1994 , 16, 317-320 | 2.8 | 2 |
| 18 | Density of electrons in a lateral quantum dot by semi-classical trajectory analysis. <i>Solid State Communications</i> , 1994 , 89, 579-582 | 1.6 | 2 |
| 17 | Electron-electron interactions and the magnetoconductance of submicron quantum dots. <i>Surface Science</i> , 1994 , 305, 527-535 | 1.8 | 2 |
| 16 | Mesoscopic charge mapping by conductance fluctuations. <i>Physica B: Condensed Matter</i> , 1990 , 165-166, 865-866 | 2.8 | 2 |
| 15 | Measuring hybridization in GaInAs/InP electron billiard arrays. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 1205-1207 | 3 | 1 |
| 14 | Quantum conductance fluctuations in semiconductor devices. <i>Current Applied Physics</i> , 2008 , 8, 332-335 | 2.6 | 1 |
| 13 | A novel quantum interference probe of the energy spectrum of coupled nanodevices. <i>Current Applied Physics</i> , 2006 , 6, 541-544 | 2.6 | 1 |
| 12 | Discrete energy level spectrum dependence of fractal conductance fluctuations in semiconductor billiards. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002 , 13, 683-686 | 3 | 1 |

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|----|---|-----|---|
| 11 | Temperature and angular dependence of magnetoresistance oscillations in a 2deg subjected to a periodic potential. <i>Physica B: Condensed Matter</i> , 1990 , 165-166, 867-868 | 2.8 | 1 |
| 10 | Electronic properties of laterally confined n-GaAs/(AlGa)As heterostructures. <i>Surface Science</i> , 1990 , 228, 296-300 | 1.8 | 1 |
| 9 | The dependence of fractal conductance fluctuations on soft-wall profile in a double-2DEG billiard. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002 , 12, 841-844 | 3 | 0 |
| 8 | Chaotic scattering in nano-electronic systems: from billiards to clusters. <i>International Journal of Nanotechnology</i> , 2009 , 6, 408 | 1.5 | |
| 7 | Geometry-induced fractal behaviour:. <i>Physica B: Condensed Matter</i> , 1998 , 249-251, 343-347 | 2.8 | |
| 6 | Series summation of fractal fluctuations in electron billiard arrays. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 34, 600-603 | 3 | |
| 5 | The dependence of fractal conductance fluctuations on semiconductor billiard parameters. <i>Physica B: Condensed Matter</i> , 2002 , 314, 477-480 | 2.8 | |
| 4 | Surviving conduction symmetries in non-linear response. <i>Superlattices and Microstructures</i> , 2003 , 34, 173-177 | 2.8 | |
| 3 | Geometry-independence of fractal ballistic processes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2003 , 19, 225-229 | 3 | |
| 2 | Temperature and size dependence of fractal MCF in semiconductor billiards. <i>Microelectronic Engineering</i> , 2000 , 51-52, 241-247 | 2.5 | |
| 1 | Phenomenological Assessment of Dynamic Fractals.. <i>Journal of Vision</i> , 2022 , 22, 39 | 0.4 | |