Richard Taylor

List of Publications by Year in Descending Order

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	Phenomenological Assessment of Dynamic Fractals.. *Journal of Vision*, **2022**, 22, 39	0.4	
63	Assessing the Visual Comfort, Visual Interest of Sunlight Patterns, and View Quality under Different Window Conditions in an Open-Plan Office. *LEUKOS - Journal of Illuminating Engineering Society of North America*, **2021**, 17, 321-337	3.5	7
62	The Potential of Biophilic Fractal Designs to Promote Health and Performance: A Review of Experiments and Applications. *Sustainability*, **2021**, 13, 823	3.6	11
61	Fractals in architecture: The visual interest, preference, and mood response to projected fractal light patterns in interior spaces. *Journal of Environmental Psychology*, **2019**, 61, 57-70	6.7	19
60	Relationship between Fractal Dimension and Spectral Scaling Decay Rate in Computer-Generated Fractals. *Symmetry*, **2016**, 8, 66	2.7	11
59	A Complex Story: Universal Preference vs. Individual Differences Shaping Aesthetic Response to Fractals Patterns. *Frontiers in Human Neuroscience*, **2016**, 10, 213	3.3	23
58	Fractal images induce fractal pupil dilations and constrictions. *International Journal of Psychophysiology*, **2014**, 93, 316-21	2.9	8
57	Is it the boundaries or disorder that dominates electron transport in semiconductor billiards?. *Fortschritte Der Physik*, **2013**, 61, 332-347	5.7	10
56	The Abstract Expressionists and Les Automatistes: A shared multi-fractal depth?. *Signal Processing*, **2013**, 93, 573-578	4.4	9
55	A fascination with fractals. *Physics World*, **2013**, 26, 37-41	0.5	3
54	Vision of beauty. *Physics World*, **2011**, 24, 22-27	0.5	5
53	NSF program benefits schools in need. *Science*, **2011**, 332, 173-4	33.3	12
52	Measuring hybridization in GaInAs/InP electron billiard arrays. *Physica E: Low-Dimensional Systems and Nanostructures*, **2010**, 42, 1205-1207	3	1
51	Chaotic scattering in nano-electronic systems: from billiards to clusters. *International Journal of Nanotechnology*, **2009**, 6, 408	1.5	
50	Quantum conductance fluctuations in semiconductor devices. *Current Applied Physics*, **2008**, 8, 332-335	2.6	1
49	Carrier density saturation in a heterostructure. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 1754-1756	3	2
48	Authenticating Pollock paintings using fractal geometry. *Pattern Recognition Letters*, **2007**, 28, 695-702	4.7	66

47	Reduction of Physiological Stress Using Fractal Art and Architecture. *Leonardo*, **2006**, 39, 245-251	0.1	56
46	A novel quantum interference probe of the energy spectrum of coupled nanodevices. *Current Applied Physics*, **2006**, 6, 541-544	2.6	1
45	Series summation of fractal fluctuations in electron billiard arrays. *Physica E: Low-Dimensional Systems and Nanostructures*, **2006**, 34, 600-603	3	
44	Personal reflections on Jackson Pollock's fractal paintings. *Historia, Ciencias, Saude - Manguinhos*, **2006**, 13, 109-123	0.2	3
43	Fractal dimension of landscape silhouette outlines as a predictor of landscape preference. *Journal of Environmental Psychology*, **2004**, 24, 247-255	6.7	166
42	Surviving conduction symmetries in non-linear response. *Superlattices and Microstructures*, **2003**, 34, 173-177	2.8	
41	The influence of confining wall profile on quantum interference effects in etched Ga0.25In0.75As/InP billiards. *Superlattices and Microstructures*, **2003**, 34, 179-184	2.8	5
40	Geometry-independence of fractal ballistic processes. *Physica E: Low-Dimensional Systems and Nanostructures*, **2003**, 19, 225-229	3	
39	Fractal Expressionism Where Art Meets Science **2003**, 117-144		22
38	Quantum ratchets and quantum heat pumps. *Applied Physics A: Materials Science and Processing*, **2002**, 75, 237-246	2.6	74
37	Quantum ratchets act as heat pumps. *Physica B: Condensed Matter*, **2002**, 314, 464-468	2.8	7
36	The dependence of fractal conductance fluctuations on semiconductor billiard parameters. *Physica B: Condensed Matter*, **2002**, 314, 477-480	2.8	
35	The dependence of fractal conductance fluctuations on soft-wall profile in a double-2DEG billiard. *Physica E: Low-Dimensional Systems and Nanostructures*, **2002**, 12, 841-844	3	0
34	Discrete energy level spectrum dependence of fractal conductance fluctuations in semiconductor billiards. *Physica E: Low-Dimensional Systems and Nanostructures*, **2002**, 13, 683-686	3	1
33	Science in culture. *Nature*, **2001**, 410, 18	50.4	21
32	A physical explanation for the origin of self-similar magnetoconductance fluctuations in semiconductor billiards. *Physica E: Low-Dimensional Systems and Nanostructures*, **2000**, 7, 726-730	3	7
31	Temperature and size dependence of fractal MCF in semiconductor billiards. *Microelectronic Engineering*, **2000**, 51-52, 241-247	2.5	
30	Chaotic ray dynamics and fast optical switching in micro-cavities with a graded refractive index. *Physica B: Condensed Matter*, **1999**, 272, 484-487	2.8	2

29	Temperature dependent fractal dimension of magneto-conductance fluctuations in semiconductor billiards. *Superlattices and Microstructures*, **1999**, 25, 157-161	2.8	8
28	Investigation of the current injection properties of ohmic spikes in nanostructures. *Superlattices and Microstructures*, **1998**, 24, 337-345	2.8	10
27	Self-similar conductance fluctuations in a Sinai billiard with a mixed chaotic phase space. *Physica B: Condensed Matter*, **1998**, 249-251, 334-338	2.8	16
26	Geometry-induced fractal behaviour:. *Physica B: Condensed Matter*, **1998**, 249-251, 343-347	2.8	
25	Wave function scarring and magnetotransport in quantum dots. *Physica B: Condensed Matter*, **1998**, 249-251, 353-357	2.8	3
24	Experimental and theoretical investigations of clusters in the magneto-fingerprints of Sinai billiards. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **1998**, 51, 212-215	3.1	2
23	Quantum transport in open mesoscopic cavities. *Chaos, Solitons and Fractals*, **1997**, 8, 1299-1324	9.3	30
22	AharonovBohm oscillations in quantum dots: precise departures fromh/eperiodicity. *Superlattices and Microstructures*, **1997**, 22, 57-63	2.8	3
21	Transition from chaotic to regular quantum scattering in mesoscopic billiards with nominally regular geometry. *Physica B: Condensed Matter*, **1996**, 227, 148-151	2.8	2
20	The role of lead openings in regular mesoscopic billiards. *Superlattices and Microstructures*, **1996**, 20, 287-295	2.8	6
19	Geometry induced quantum interference: a continuous evolution from square to Sinai billiard. *Superlattices and Microstructures*, **1996**, 20, 297-305	2.8	2
18	The topological transition from a Corbino to Hall bar geometry. *Superlattices and Microstructures*, **1996**, 20, 651-656	2.8	4
17	A tunable ballistic electron cavity exhibiting geometry-induced weak localisation. *Superlattices and Microstructures*, **1994**, 16, 317-320	2.8	2
16	The extreme quantum regime of 2D electron and hole systems. *Physica B: Condensed Matter*, **1994**, 201, 301-314	2.8	12
15	Australian national pulsed magnet laboratory for condensed matter physics research. *Physica B: Condensed Matter*, **1994**, 201, 565-571	2.8	13
14	Density of electrons in a lateral quantum dot by semi-classical trajectory analysis. *Solid State Communications*, **1994**, 89, 579-582	1.6	2
13	Anti-collimation of ballistic electrons by a potential barrier. *Surface Science*, **1994**, 305, 448-452	1.8	4
12	Electron-electron interactions and the magnetoconductance of submicron quantum dots. *Surface Science*, **1994**, 305, 527-535	1.8	2

11	Fabrication and characterisation of multi-level lateral nano-devices. *Surface Science*, **1994**, 305, 648-653	1.8	5
10	Classical and quantum transmission effects in submicron-size dots. *Surface Science*, **1992**, 263, 247-252	1.8	14
9	The effect of coulomb interactions on the magnetoconductance oscillations of quantum dots. *Solid State Communications*, **1992**, 84, 631-634	1.6	21
8	Experimental investigation of quantum point contacts separated by open and enclosed regions. *Superlattices and Microstructures*, **1992**, 11, 219-222	2.8	10
7	Collimation effects in quantum point contacts. *Physica B: Condensed Matter*, **1991**, 175, 243-246	2.8	3
6	Mesoscopic charge mapping by conductance fluctuations. *Physica B: Condensed Matter*, **1990**, 165-166, 865-866	2.8	2
5	Temperature and angular dependence of magnetoresistance oscillations in a 2deg subjected to a periodic potential. *Physica B: Condensed Matter*, **1990**, 165-166, 867-868	2.8	1
4	Electronic properties of laterally confined n-GaAs/(AlGa)As heterostructures. *Surface Science*, **1990**, 228, 296-300	1.8	1
3	Electron heating in a submicron-size n+ GaAs wire. *Superlattices and Microstructures*, **1989**, 5, 575-578	2.8	6
2	Universal conductance fluctuations in the magnetoresistance of submicron-size n+-GaAs wires and laterally confined n□GaAs/(AlGa)As heterostructures. *Surface Science*, **1988**, 196, 52-58	1.8	53
1	Universal conductance fluctuations in the magnetoresistance of submicron n+GaAs wires. *Superlattices and Microstructures*, **1986**, 2, 381-383	2.8	15