

# Howard E Jackson

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

109 papers	2,795 citations	26 h-index	50 g-index
117 ext. papers	3,042 ext. citations	5.3 avg, IF	4.14 L-index

#	Paper	IF	Citations
109	Band structure and polarization effects in photothermoelectric spectroscopy of a Bi <sub>2</sub> Se <sub>3</sub> device. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 122110	3.4	
108	A Raman probe of phonons and electron-phonon interactions in the Weyl semimetal NbIrTe. <i>Scientific Reports</i> , <b>2021</b> , 11, 8155	4.9	3
107	Ultrafast photoinduced band splitting and carrier dynamics in chiral tellurium nanosheets. <i>Nature Communications</i> , <b>2020</b> , 11, 3991	17.4	8
106	Exploring the band structure of Wurtzite InAs nanowires using photocurrent spectroscopy. <i>Nano Research</i> , <b>2020</b> , 13, 1586-1591	10	2
105	Strong Hot Carrier Effects in Single Nanowire Heterostructures. <i>Nano Letters</i> , <b>2019</b> , 19, 5062-5069	11.5	8
104	Revealing Optical Transitions and Carrier Recombination Dynamics within the Bulk Band Structure of BiSe. <i>Nano Letters</i> , <b>2018</b> , 18, 5875-5884	11.5	11
103	Thermal Delocalization of Excitons in GaAs/AlGaAs Quantum Well Tube Nanowires. <i>Nano Letters</i> , <b>2016</b> , 16, 1392-7	11.5	6
102	Optical Properties of Semiconductor Nanowires: Insights into Band Structure and Carrier Dynamics. <i>Semiconductors and Semimetals</i> , <b>2016</b> , 94, 17-74	0.6	
101	Emergence of localized states in narrow GaAs/AlGaAs nanowire quantum well tubes. <i>Nano Letters</i> , <b>2015</b> , 15, 1876-82	11.5	41
100	Zn <sub>3</sub> As <sub>2</sub> nanowires and nanoplatelets: highly efficient infrared emission and photodetection by an earth abundant material. <i>Nano Letters</i> , <b>2015</b> , 15, 378-85	11.5	14
99	Antimony Induced {112}A Faceted Triangular GaAs <sub>1-x</sub> Sbx/InP Core/Shell Nanowires and Their Enhanced Optical Quality. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 5300-5308	15.6	34
98	Quantum Confined Stark Effect in a GaAs/AlGaAs Nanowire Quantum Well Tube Device: Probing Exciton Localization. <i>Nano Letters</i> , <b>2015</b> , 15, 7847-52	11.5	21
97	Carrier thermalization dynamics in single zincblende and wurtzite InP Nanowires. <i>Nano Letters</i> , <b>2014</b> , 14, 7153-60	11.5	15
96	Tuning Band Energies in a Combined Axial and Radial GaAs/GaP Heterostructure. <i>Materials Research Society Symposia Proceedings</i> , <b>2014</b> , 1659, 139-142		
95	Localization of Excitons in Thin Core-Multi-Shell Quantum Well Tubes. <i>Materials Research Society Symposia Proceedings</i> , <b>2014</b> , 1659, 135-138		
94	Optical, structural, and numerical investigations of GaAs/AlGaAs core-multishell nanowire quantum well tubes. <i>Nano Letters</i> , <b>2013</b> , 13, 1016-22	11.5	94
93	Illuminating the second conduction band and spin-orbit energy in single wurtzite InP nanowires. <i>Nano Letters</i> , <b>2013</b> , 13, 5367-72	11.5	21

92	Transient Rayleigh scattering: a new probe of picosecond carrier dynamics in a single semiconductor nanowire. <i>Nano Letters</i> , <b>2012</b> , 12, 5389-95	11.5	17
91	Nonlinear Two-Photon Photocurrent Spectroscopy of CdS Nanosheets. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1439, 77-81		
90	Photomodulated Rayleigh Scattering from Single Semiconductor Nanowires. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1408, 11		
89	III-V semiconductor nanowires for optoelectronic device applications. <i>Progress in Quantum Electronics</i> , <b>2011</b> , 35, 23-75	9.1	215
88	Defect-Free GaAs/AlGaAs Core-Shell Nanowires on Si Substrates. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 3109-3114	3.5	40
87	Photomodulated rayleigh scattering of single semiconductor nanowires: probing electronic band structure. <i>Nano Letters</i> , <b>2011</b> , 11, 4329-36	11.5	17
86	Insights into single semiconductor nanowire heterostructures using time-resolved photoluminescence. <i>Semiconductor Science and Technology</i> , <b>2010</b> , 25, 024010	1.8	34
85	Direct measure of strain and electronic structure in GaAs/GaP core-shell nanowires. <i>Nano Letters</i> , <b>2010</b> , 10, 880-6	11.5	89
84	Carrier dynamics and quantum confinement in type II ZB-WZ InP nanowire homostructures. <i>Nano Letters</i> , <b>2009</b> , 9, 648-54	11.5	157
83	Raman stress mapping of CdS nanosheets. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 083105	3.4	16
82	Unexpected benefits of rapid growth rate for III-V nanowires. <i>Nano Letters</i> , <b>2009</b> , 9, 695-701	11.5	114
81	Ultralong spin memory of optically excited single magnetic quantum dots. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 153114	3.4	19
80	High Purity GaAs Nanowires Free of Planar Defects: Growth and Characterization. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 3794-3800	15.6	83
79	Grating Couplers Fabricated by Electron-Beam Lithography for Coupling Free-Space Light Into Nanophotonic Devices. <i>IEEE Nanotechnology Magazine</i> , <b>2007</b> , 6, 622-626	2.6	11
78	Resonant excitation and imaging of nonequilibrium exciton spins in single core-shell GaAs-AlGaAs nanowires. <i>Nano Letters</i> , <b>2007</b> , 7, 588-95	11.5	35
77	Dynamics of strongly degenerate electron-hole plasmas and excitons in single InP nanowires. <i>Nano Letters</i> , <b>2007</b> , 7, 3383-7	11.5	44
76	Pulse Propagation in End-Linked Poly(dimethylsiloxane) Networks. <i>Macromolecules</i> , <b>2003</b> , 36, 6127-6134	4.5	10
75	Photoluminescence of CdSe self-assembled quantum dots: Experiments and models. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	2

74	A Brillouin scattering study of end-linked poly(dimethylsiloxane) networks. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 2968-2974	3.9	19
73	Near-field spectroscopic characterization of a 10 $\mu\text{m}$ aperture selectively oxidized vertical cavity surface emitting laser. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 6837-6844	2.5	7
72	Characterization of residual stresses in a sapphire-fiber-reinforced glass-matrix composite by micro-fluorescence spectroscopy. <i>Composites Science and Technology</i> , <b>2001</b> , 61, 1639-1647	8.6	9
71	Mapping of local stress distributions in SiGe/Si optical channel waveguide. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 276-282	2.5	15
70	Optical observation of quantum-dot formation in sub-critical CdSe layers grown on ZnSe. <i>Journal of Crystal Growth</i> , <b>2000</b> , 214-215, 761-764	1.6	16
69	Near-field spectroscopy of selectively oxidized vertical cavity surface emitting lasers. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 526-528	3.4	15
68	Origin of two types of excitons in CdSe dots on ZnSe. <i>Physical Review B</i> , <b>2000</b> , 61, R2405-R2408	3.3	22
67	Evidence for 2D precursors and interdiffusion in the evolution of self-assembled CdSe quantum dots on ZnSe. <i>Physical Review Letters</i> , <b>2000</b> , 85, 1124-7	7.4	86
66	Phonons and exciton recombination in CdSe/ZnSe self-assembled quantum dots. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 1813	3.4	21
65	Raman scattering from CdSe/ZnSe self-assembled quantum dot structures. <i>Physical Review B</i> , <b>2000</b> , 61, 15641-15644	3.3	38
64	Quantum Dot Exciton Dynamics through a Nanoaperture: Evidence for Two Confined States. <i>Physical Review Letters</i> , <b>1999</b> , 83, 2797-2800	7.4	40
63	Temperature-dependent micro-photoluminescence of individual CdSe self-assembled quantum dots. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 214-216	3.4	91
62	Imaging local index variations in an optical waveguide using a tapping-mode near-field scanning optical microscope. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 1039-1041	3.4	22
61	Raman imaging of stress in a SiGe/Si photoelastic optical channel waveguide structure. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 1287-1289	3.4	11
60	Spectrally-resolved near-field investigation of proton implanted vertical cavity surface emitting lasers. <i>Applied Physics Letters</i> , <b>1998</b> , 72, 3112-3114	3.4	19
59	Potential for size reduction of AlGaAs optical channel waveguide structures fabricated by focused ion beam implantation and oxidation. <i>Optics Communications</i> , <b>1998</b> , 150, 97-100	2	4
58	Spectroscopic characterization of the evolution of self-assembled CdSe quantum dots. <i>Applied Physics Letters</i> , <b>1998</b> , 73, 3399-3401	3.4	40
57	Channel optical waveguides formed by deuterium passivation in GaAs and InP. <i>Journal of Applied Physics</i> , <b>1997</b> , 82, 3205-3213	2.5	6

56	Modeling Interdiffusion in Superlattice Structures. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 484, 437		
55	Polarized Raman Scattering Study of ZnGeP <sub>2</sub> Single Crystals. <i>Materials Research Society Symposia Proceedings</i> , <b>1997</b> , 484, 543		0
54	A micro-Raman investigation of the SCS-6 SiC fiber. <i>Journal of Applied Physics</i> , <b>1997</b> , 82, 407-412	2.5	7
53	Interdiffusion in Quantum Wells: Mixing Mechanisms and Energy Levels. <i>Materials Research Society Symposia Proceedings</i> , <b>1996</b> , 450, 365		
52	Use of near-field scanning optical microscopy (NSOM) to characterize optical channel waveguide structures <b>1996</b> ,		2
51	Observation of Si in SiC composite fibers: A micro-Raman investigation. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 2352-2354	3.4	6
50	Near field scanning optical microscopy measurements of optical intensity distributions in semiconductor channel waveguides. <i>Applied Physics Letters</i> , <b>1996</b> , 69, 3471-3473	3.4	14
49	Photon scanning tunneling microscopy of optical channel waveguides. <i>Ultramicroscopy</i> , <b>1995</b> , 57, 124-129	3.1	9
48	Near field measurements of optical channel waveguide structures. <i>Ultramicroscopy</i> , <b>1995</b> , 61, 295-298	3.1	11
47	Plasma synthesis of diamond at low temperature with a pulse modulated magnetoactive discharge. <i>Applied Physics Letters</i> , <b>1995</b> , 66, 3380-3382	3.4	17
46	Low-temperature diamond growth in a pulsed microwave plasma. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1995</b> , 13, 1617-1618	2.9	16
45	GaAs quantum well distributed Bragg reflection laser with AlGaAs/GaAs superlattice gratings fabricated by focused ion beam mixing. <i>Applied Physics Letters</i> , <b>1995</b> , 67, 179-181	3.4	14
44	Phonon mode study of Si nanocrystals using micro-Raman spectroscopy. <i>Journal of Applied Physics</i> , <b>1995</b> , 78, 6705-6708	2.5	115
43	Near-field measurements of optical channel waveguides <b>1995</b> ,		1
42	Near field measurements of optical channel waveguides and directional couplers. <i>Applied Physics Letters</i> , <b>1994</b> , 65, 947-949	3.4	58
41	Characterization of optical channel waveguides formed by FIB induced compositional mixing in AlGaAs MQWs. <i>Superlattices and Microstructures</i> , <b>1994</b> , 15, 421-425	2.8	2
40	Photon Scanning Tunneling Microscopy of Optical Waveguide Structures. <i>Materials Research Society Symposia Proceedings</i> , <b>1994</b> , 332, 543		
39	Friction and wear of plasma-deposited diamond films. <i>Journal of Applied Physics</i> , <b>1993</b> , 74, 4446-4454	2.5	68

38	Raman investigation of the nonlinear optical phenomenon of polarization rotation in Ti:LiNbO <sub>3</sub> channel waveguides. <i>Journal of Applied Physics</i> , <b>1993</b> , 74, 1492-1500	2.5	12
37	Raman study of the formation of tungsten silicide thin films. <i>Journal of Applied Physics</i> , <b>1993</b> , 73, 7887-7893	3	8
36	Characterization of Si <sub>3</sub> N <sub>4</sub> /SiO <sub>2</sub> optical channel waveguides by photon scanning tunneling microscopy <b>1993</b> ,		4
35	Raman and Photoluminescence Characterization of FIB Patterned AlGaAs/GaAs Multiple Quantum Wells. <i>Materials Research Society Symposia Proceedings</i> , <b>1993</b> , 324, 193		2
34	Time Resolved Photoluminescence from Patterned GaAs/AlGaAs Multiple Quantum Well Structures. <i>Materials Research Society Symposia Proceedings</i> , <b>1993</b> , 326, 531		2
33	Raman Scattering Characterization of Ultrathin Films of SiC. <i>Materials Research Society Symposia Proceedings</i> , <b>1993</b> , 324, 267		
32	Optical waveguides fabricated by ion implantation of Si(+) and N(+) in SiO <sub>2</sub> : a Raman investigation. <i>Applied Optics</i> , <b>1993</b> , 32, 313-7	1.7	4
31	Effects of oxygen and pressure on diamond synthesis in a magnetoactive microwave discharge. <i>Journal of Applied Physics</i> , <b>1992</b> , 71, 2918-2923	2.5	20
30	Optical Channel Waveguides in AlGaAs Multiple Quantum Well Structures Formed by Focused Ion Beam Induced Compositional Mixing. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 281, 313		2
29	Raman Microprobe Spectroscopy and Photon Scanning Tunneling Spectroscopy: Applications to Optical Waveguides. <i>Materials Research Society Symposia Proceedings</i> , <b>1991</b> , 240, 673		
28	High-dose implantation of Si in SiO <sub>2</sub> : formation of Si crystallites after annealing. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1991</b> , 59-60, 637-642	1.2	7
27	Raman and photon scanning tunnelling microscopy of optical waveguides. <i>Optical and Quantum Electronics</i> , <b>1991</b> , 23, S901-S907	2.4	1
26	Raman microprobe characterization of photorefractive nonlinearity in Ti:LiNbO <sub>3</sub> channel waveguides. <i>Applied Physics Letters</i> , <b>1991</b> , 58, 672-674	3.4	12
25	Low temperature and low pressure diamond synthesis in a microwave electron cyclotron resonance discharge. <i>Applied Physics Letters</i> , <b>1991</b> , 59, 1170-1172	3.4	20
24	ECR Enhancement of Low Pressure PECVD Diamond Synthesis. <i>Materials Research Society Symposia Proceedings</i> , <b>1990</b> , 202, 253		
23	Photon scanning tunneling microscope study of optical waveguides. <i>Applied Physics Letters</i> , <b>1990</b> , 56, 1515-1517	3.4	60
22	Silicon crystallite formation in ion-implanted quartz. <i>Applied Physics Letters</i> , <b>1989</b> , 55, 1199-1201	3.4	6
21	Characterization of Ti:LiNbO <sub>3</sub> Optical Channel Waveguides Fabricated using Rapid Thermal Annealing. <i>Materials Research Society Symposia Proceedings</i> , <b>1989</b> , 152, 277		2

20	Two-beam laser recrystallization of polycrystalline silicon on an insulating substrate. <i>Journal of Applied Physics</i> , <b>1988</b> , 64, 2069-2075	2.5	2
19	Optical response at 10.6 $\mu$ m in tungsten silicide Schottky barrier diodes. <i>Journal of Applied Physics</i> , <b>1987</b> , 62, 3848-3852	2.5	
18	Raman scattering from rapid thermally annealed tungsten silicide. <i>Applied Physics Letters</i> , <b>1987</b> , 50, 323-325	3.4	5
17	Raman Scattering from Rapid Thermally Annealed Tungsten Silicide. <i>Materials Research Society Symposia Proceedings</i> , <b>1987</b> , 92, 213		
16	Characterization of the effects of different capping layer structures on the laser recrystallization of silicon by using electrical test structures and Raman spectroscopy. <i>Journal of Applied Physics</i> , <b>1986</b> , 60, 4273-4276	2.5	4
15	Two-Beam Laser Recrystallization of Silicon on an Insulating Substrate. <i>Materials Research Society Symposia Proceedings</i> , <b>1985</b> , 53, 71		2
14	Low loss optical waveguides fabricated by thermal nitridation of oxidized silicon. <i>Applied Physics Letters</i> , <b>1985</b> , 47, 353-355	3.4	28
13	Optical waveguide detection: Photodetector array formed on the waveguide utilizing laser recrystallized silicon. <i>Applied Physics Letters</i> , <b>1985</b> , 46, 498-500	3.4	12
12	Rutherford backscattering evidence for solid phase laser annealing of Corning 7059 glass and ZnO thin films. <i>Journal of Applied Physics</i> , <b>1983</b> , 54, 2125-2126	2.5	1
11	A low-scattering graded-index SiO <sub>2</sub> planar optical waveguide thermally grown on silicon. <i>Applied Physics Letters</i> , <b>1983</b> , 42, 565-566	3.4	17
10	Brillouin scattering study of phonon-defect interactions in KCl: CN. <i>Physical Review B</i> , <b>1982</b> , 26, 5927-5931	3.4	5
9	Extremely low-loss glass thin-film optical waveguides utilizing surface coating and laser annealing. <i>Journal of Applied Physics</i> , <b>1981</b> , 52, 3873-3875	2.5	24
8	Scattering loss reduction in ZnO optical waveguides by laser annealing. <i>Applied Physics Letters</i> , <b>1981</b> , 39, 206-208	3.4	46
7	Reduction of scattering from a glass thin-film optical waveguide by CO <sub>2</sub> laser annealing. <i>Applied Physics Letters</i> , <b>1980</b> , 37, 512-514	3.4	23
6	Distributed-feedback dye laser integrated with a channel waveguide formed on silicon. <i>Applied Physics Letters</i> , <b>1980</b> , 36, 721-723	3.4	20
5	Brillouin scattering observation of phonon renormalization in KCl:CN. <i>Solid State Communications</i> , <b>1979</b> , 32, 1271-1273	1.6	3
4	Elastic constants of krypton single crystals determined by Brillouin scattering. <i>Physical Review B</i> , <b>1976</b> , 13, 888-895	3.3	29
3	Observed Differences in Zero- and First-Sound Propagation in Solid Krypton. <i>Physical Review Letters</i> , <b>1973</b> , 31, 296-298	7.4	26

2	Thermal Conductivity, Second Sound, and Phonon-Phonon Interactions in NaF. <i>Physical Review B</i> , <b>1971</b> , 3, 1428-1439	3.3	212
1	Second Sound in NaF. <i>Physical Review Letters</i> , <b>1970</b> , 25, 26-28	7.4	172