

John F Mcgilp

List of Publications by Year in descending order

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105
papers

2,391
citations

201674

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1435
citing authors

#	ARTICLE	IF	CITATIONS
1	Electronic Properties of Ag Reconstructions on Si(111): Coulomb Blockade Behavior at Room Temperature. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1700494.	1.5	2
2	Group V adsorbate structures on vicinal Ge(001) surfaces determined from the optical spectrum. <i>Applied Physics Letters</i> , 2017, 110, 233903.	3.3	1
3	Reflectance anisotropy spectroscopy of the Si/Au surface. <i>Physical Review B</i> , 2016, 94, .	3.2	13
4	Temperature dependent studies of capped magnetic nanowires using XMCD. <i>Physica Status Solidi (B): Basic Research</i> , 2016, 253, 241-246.	1.5	0
5	Optical characterisation of plasmonic nanostructures on planar substrates using second-harmonic generation. <i>Optics Express</i> , 2015, 23, 26486.	3.4	5
6	Probing chiral monolayers of cysteine on Au(110) using reflection anisotropy spectroscopy and second-harmonic generation. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 95-99.	1.5	3
7	Reflectance anisotropy spectroscopy of clean and Sb covered Ge(001) surfaces and comparison with clean Si(001) surfaces. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 78-86.	1.5	6
8	An analytic approach to modeling the optical response of anisotropic nanoparticle arrays at surfaces and interfaces. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 145302.	1.8	5
9	Reflectance anisotropy spectroscopy of magnetite (110) surfaces. <i>Physical Review B</i> , 2014, 89, .	3.2	7
10	Manipulating and probing the growth of plasmonic nanoparticle arrays using light. <i>Nanoscale</i> , 2013, 5, 4923.	5.6	12
11	Reflectance anisotropy spectroscopy of Si(111)- $\sqrt{3}\times\sqrt{3}$ and Ag surfaces. <i>Physical Review B</i> , 2013, 87, .	3.2	7
12	General approach to the analysis of plasmonic structures using spectroscopic ellipsometry. <i>Physical Review B</i> , 2013, 87, .	3.2	19
13	Optical Fingerprints of Si Honeycomb Chains and Atomic Gold Wires on the Si(111)- $\sqrt{3}\times\sqrt{3}$ and Ag surfaces. <i>Applied Physics Letters</i> , 2013, 111, 087401.	7.8	28
14	Controlled <i>in situ</i> growth of tunable plasmonic self-assembled nanoparticle arrays. <i>Nanotechnology</i> , 2012, 23, 035606.	2.6	22
15	Anisotropic optical response of elongated Pb islands in the infrared spectral region. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 1105-1109.	1.5	1
16	The linear and nonlinear optical response of native oxide covered rippled Si templates with nanoscale periodicity. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 1173-1177.	1.5	4
17	Chiral second-harmonic generation from small organic molecules at surfaces. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 1155-1159.	1.5	8
18	Optical characterization of gold chains and steps on the vicinal Si(557) surface: Theory and experiment. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 1095-1104.	1.5	10

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19	Temperature-dependent magnetic second-harmonic generation from Fe nanostructures grown on vicinal W(110). <i>Physical Review B</i> , 2011, 83, .	3.2	0
20	Optical and phonon excitations of modified Pandey chains at the Si(111)-2 \bar{A} -1 surface. <i>Physical Review B</i> , 2011, 84, .	3.2	11
21	Probing the out-of-plane optical response of plasmonic nanostructures using spectroscopic ellipsometry. <i>Physical Review B</i> , 2011, 84, .	3.2	25
22	<i>In situ</i> characterization of one-dimensional plasmonic Ag nanocluster arrays. <i>Physical Review B</i> , 2011, 83, .	3.2	21
23	Magnetic second-harmonic generation from interfaces and nanostructures. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 1488-1493.	2.3	7
24	X-ray magnetic circular dichroism and reflection anisotropy spectroscopy Kerr effect studies of capped magnetic nanowires. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2108-2112.	1.5	5
25	Metal-insulator transition in Si(111)-(4 \bar{A} -1)/(8 \bar{A} -2) studied by optical spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2033-2039.	1.5	11
26	Optical anisotropy of Si(111)-(4 \bar{A} -1)/(8 \bar{A} -2) nanowires calculated from <i>first-principles</i> . <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 133-136.	0.8	1
27	New evidence for the influence of step morphology on the formation of Au atomic chains on vicinal Si(111) surfaces. <i>Europhysics Letters</i> , 2010, 92, 67008.	2.0	19
28	Probing surface and interface structure using optics. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 084018.	1.8	23
29	Structure of Si(111)-In Nanowires Determined from the Midinfrared Optical Response. <i>Physical Review Letters</i> , 2009, 102, 226805.	7.8	46
30	Using surface and interface optics to probe the capping, with amorphous Si, of Au atom chains grown on vicinal Si(111). <i>Journal of Physics Condensed Matter</i> , 2009, 21, 474208.	1.8	7
31	Using reflectance anisotropy spectroscopy to characterize capped silver nanostructures grown on silicon. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 2556-2560.	0.8	6
32	Optimizing the magnetic contrast in the optical second-harmonic response of capped magnetic nanostructures grown on vicinal surfaces. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 2645-2648.	0.8	1
33	Optical second-harmonic generation studies of Si(111)-(3 \bar{A} -1)Ag and Si(111)-(3 \bar{A} -1)Ag grown on vicinal Si(111). <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 2649-2652.	0.8	4
34	Determining magnetization curves using optical second-harmonic generation. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 2653-2656.	0.8	1
35	Reflectance anisotropy studies of 5 \bar{A} -2-Au structures grown on Si(111) surfaces with different step formations. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 2569-2572.	0.8	3
36	Magnetic second-harmonic generation from the terraces and steps of aligned magnetic nanostructures grown on low symmetry interfaces. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 265002.	1.8	7

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37	Optical reflectance anisotropy of buried Fe nanostructures on vicinal W(110). Journal of Physics Condensed Matter, 2007, 19, 266003.	1.8	12
38	Using steps at the Si/SiO ₂ interface to test simple bond models of the optical second-harmonic response. Journal of Physics Condensed Matter, 2007, 19, 016006.	1.8	13
39	Extracting the hysteresis loops of magnetic interfaces from optical second-harmonic intensity measurements. Journal of Physics Condensed Matter, 2007, 19, 396002.	1.8	8
40	Surface phonons of the Si/SiO ₂ interface. Physical Review B, 2007, 76, .	1.8	28
41	Optical and electronic properties of Ag nanodots on Si(111). Journal of Physics Condensed Matter, 2006, 18, 6979-6986.	1.8	11
42	Free-electron response in reflectance anisotropy spectra. Physical Review B, 2006, 74, .	3.2	8
43	Optical and magnetic properties of europium sulphide thin films grown by pulsed laser deposition. Thin Solid Films, 2005, 488, 200-203.	1.8	5
44	Optical reflectance anisotropy studies of Fe nanostructures grown on vicinal W(110). Physica Status Solidi (B): Basic Research, 2005, 242, 2650-2654.	1.5	2
45	Optical properties of indium nanowires - an adsorption study. Physica Status Solidi (B): Basic Research, 2005, 242, 2655-2663.	1.5	6
46	Optical response of Ag-induced reconstructions on vicinal Si(111). Physica Status Solidi (B): Basic Research, 2005, 242, 3017-3021.	1.5	3
47	Bulk and interface contributions to the optical second-harmonic response of native-oxide-covered vicinal Si(111). Physica Status Solidi (B): Basic Research, 2005, 242, 3012-3016.	1.5	0
48	Atomic indium nanowires on Si(111): the (4 Å ⁻¹ - 1) ↔ (8 Å ⁻¹ - 2) phase transition studied with reflectance anisotropy spectroscopy. Applied Surface Science, 2004, 234, 302-306.	6.1	15
49	Phenomenology of magnetic second harmonic generation from low symmetry surfaces and interfaces. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 3046-3049.	0.8	6
50	Anisotropic second harmonic generation from Si(111)-4x1-In. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 3050-3054.	0.8	0
51	Bond hyperpolarizabilities - SHG simplified?. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 3060-3064.	0.8	4
52	Phonon and polarized reflectance spectra from Si(111)-(4 Å ⁻¹ - 1) In: Evidence for a charge-density-wave driven phase transition. Physical Review B, 2003, 67, .	3.2	48
53	Spectroscopic Investigations of Borosilicate Glass and Its Application as a Dopant Source for Shallow Junctions. Journal of the Electrochemical Society, 2000, 147, 3100.	2.9	16
54	Optical Second-Harmonic Generation as a Semiconductor Surface and Interface Probe. Physica Status Solidi A, 1999, 175, 153-167.	1.7	66

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55	Optical Second Harmonic Generation Studies of Indium Deposited on Vicinal Si(111). Physica Status Solidi A, 1999, 175, 189-193.	1.7	6
56	SECOND-HARMONIC GENERATION AT SEMICONDUCTOR AND METAL SURFACES. Surface Review and Letters, 1999, 06, 529-558.	1.1	32
57	Spontaneous emission of dye molecules, semiconductor nanocrystals, and rare-earth ions in opal-based photonic crystals. Journal of Lightwave Technology, 1999, 17, 2128-2137.	4.6	80
58	Erbium and Terbium Luminescence from Sol-gel Derived In ₂ O ₃ Films on Porous Silicon. Physica Status Solidi A, 1998, 165, 131-134.	1.7	16
59	Epi-optic studies of vicinal Si(001)-Ga. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1998, 20, 1019-1024.	0.4	5
60	A review of optical second-harmonic and sum-frequency generation at surfaces and interfaces. Journal Physics D: Applied Physics, 1996, 29, 1812-1821.	2.8	78
61	Effect of adlayer dimer orientation on the optical anisotropy of single domain Si(001). Applied Physics Letters, 1996, 69, 176-178.	3.3	18
62	Optical Techniques for Probing Semiconductor Surfaces and Interfaces. , 1996, , 163-167.		1
63	Optical second-harmonic generation studies of the structure of porous silicon surfaces. Thin Solid Films, 1995, 255, 146-148.	1.8	12
64	Development of a LED-based phase fluorimetric oxygen sensor using evanescent wave excitation of a sol-gel immobilized dye. Sensors and Actuators B: Chemical, 1995, 29, 226-230.	7.8	76
65	Optical characterisation of semiconductor surfaces and interfaces. Progress in Surface Science, 1995, 49, 1-106.	8.3	163
66	Resonant Optical Second Harmonic Generation at the Steps of Vicinal Si(001). Physical Review Letters, 1995, 75, 1138-1141.	7.8	58
67	Angle-resolved photoemission from an unusual quasi-one-dimensional metallic system: a single domain Au-induced $5\sqrt{3}\times\sqrt{3}$ reconstruction of Si(111). Surface Science, 1995, 325, 45-49.	1.9	57
68	Second Harmonic and Sum Frequency Generation. , 1995, , 183-206.		1
69	Nucleation and evolution of the Au-induced $5\sqrt{3}\times\sqrt{3}$ structure on vicinal Si(111). Physical Review B, 1994, 49, 2527-2535.	3.2	62
70	Spectroscopic optical second-harmonic generation from semiconductor interfaces. Applied Physics A: Solids and Surfaces, 1994, 59, 401-405.	1.4	16
71	Fibre optic chemical sensors based on evanescent wave interactions in sol-gel-derived porous coatings. Journal of Sol-Gel Science and Technology, 1994, 2, 661-665.	2.4	45
72	Probing semiconductor interfaces using nonlinear optical spectroscopy. Optical Engineering, 1994, 33, 3895.	1.0	18

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73	Development of an intrinsic phase fluorimetric oxygen sensor using a high-intensity blue LED. , 1994, 2360, 461.		0
74	In situ optical spectroscopy of surfaces and interfaces with submonolayer resolution. Applied Surface Science, 1993, 63, 99-105.	6.1	7
75	Fibre optic oxygen sensor based on fluorescence quenching of evanescent-wave excited ruthenium complexes in sol-gel derived porous coatings. Analyst, The, 1993, 118, 385-388.	3.5	226
76	Resonance and local-field effects in the characterization of molecular monolayers by optical second-harmonic generation. Synthetic Metals, 1993, 61, 181-184.	3.9	10
77	The effect of the local field on the optical second-harmonic response of mixed liquid crystal-stearic acid monolayers. Journal of Physics Condensed Matter, 1993, 5, 3791-3800.	1.8	12
78	Control of terrace width and atomic step distribution on vicinal Si(111) surfaces by thermal processing. Semiconductor Science and Technology, 1993, 8, 495-501.	2.0	31
79	Resonant optical second-harmonic generation from mixed liquid crystal-stearic acid monolayers. Journal of Physics Condensed Matter, 1992, 4, 7965-7972.	1.8	14
80	Bond calculation of optical second-harmonic generation at gallium- and arsenic-terminated Si(111) surfaces. Journal of Physics Condensed Matter, 1992, 4, 4017-4037.	1.8	29
81	A structural study of the sol-gel process by optical fluorescence and decay time spectroscopy. Journal of Non-Crystalline Solids, 1991, 135, 8-14.	3.1	87
82	Characterization of the Si(111)-Ga interface using optical second-harmonic generation. Journal of Physics Condensed Matter, 1991, 3, S193-S198.	1.8	1
83	N _{6,7O4,5O4,5} Auger spectrum of metallic Au. Physical Review B, 1991, 43, 9550-9557.	3.2	19
84	Simplification of the N _{6.7O4.5O4.5} Auger spectrum of Au. Journal of Physics Condensed Matter, 1990, 2, 195-200.	1.8	11
85	Epioptics: linear and non-linear optical spectroscopy of surfaces and interfaces. Journal of Physics Condensed Matter, 1990, 2, 7985-8006.	1.8	87
86	Optical second-harmonic generation for studying surfaces and interfaces. Journal of Physics Condensed Matter, 1989, 1, SB85-SB92.	1.8	28
87	The spatial distribution of flux produced by single capillary gas dosers. Vacuum, 1988, 38, 341-344.	3.5	13
88	The angular distribution of thermal molecular beams formed by single capillaries in the molecular flow regime. Vacuum, 1988, 38, 463-467.	3.5	13
89	Schottky contacts to cleaved GaAs (110) surfaces. II. Thermodynamic aspects. Journal of Physics C: Solid State Physics, 1988, 21, 807-818.	1.5	16
90	Metal adatoms on oxidised silicon surfaces. Semiconductor Science and Technology, 1988, 3, 937-942.	2.0	5

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91	Alloying and entropy effects in predicting metal/compound semiconductor interface reactivity. <i>Journal of Materials Research</i> , 1987, 2, 516-523.	2.6	13
92	Determining metal-semiconductor interface structure by optical second-harmonic generation. <i>Semiconductor Science and Technology</i> , 1987, 2, 102-107.	2.0	14
93	Determining metal semiconductor interface structure by optical second harmonic generation. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1987, 5, 1442-1446.	2.1	24
94	Measurement of gas flux distributions from single capillaries using a modified, uhv-compatible ion gauge, and comparison with theory. <i>Vacuum</i> , 1986, 36, 227-232.	3.5	19
95	Probing the buried metal-semiconductor interface by optical second harmonic generation: Au on Si(1 1 1) Tj ETQq1 1,0,784314,rgBT /Ove	1.9	44
96	A simple semiquantitative model for classifying metal compound semiconductor interface reactivity. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1985, 3, 1641.	1.6	18
97	On predicting the chemical reactivity of metal-semiconductor interfaces. <i>Journal of Physics C: Solid State Physics</i> , 1984, 17, 2249-2254.	1.5	52
98	Soft X-ray photoemission spectroscopy of chemical reactivity at metal-GaSe interfaces. <i>Vacuum</i> , 1983, 33, 607-612.	3.5	22
99	Calculation of the electron binding energies of atomic Zn, Cd and Hg: evidence of a many-electron shift in the gas phase X-ray photoemission spectra of core levels. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1980, 13, 1953-1960.	1.6	12
100	The L ₃ M _{2,3} M _{4,5} , L _{2,3} M _{2,3} M _{2,3} and L ₃ M ₁ M _{4,5} Auger spectra of Cu, Zn and Ge. <i>Journal of Physics C: Solid State Physics</i> , 1978, 11, 643-650.	1.5	28
101	The N _{6,7} O _{4,5} O _{4,5} Auger spectra of thallium, lead and bismuth. <i>Journal of Physics C: Solid State Physics</i> , 1977, 10, 3445-3460.	1.5	55
102	The L _{2,3} M _{4,5} M _{4,5} Auger and photoelectron spectra of germanium. <i>Journal of Physics C: Solid State Physics</i> , 1976, 9, 3541-3555.	1.5	36
103	Solid-state effects in the quasiatomic L _{2,3} M _{4,5} M _{4,5} Auger spectra of zinc. <i>Journal of Physics C: Solid State Physics</i> , 1976, 9, L585-L590.	1.5	39
104	Electrical characteristics of an X-ray photoelectron spectrometer. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1975, 6, 397-409.	1.7	20
105	Radiation damage in some platinum(IV) complexes produced during soft X-ray photoelectron spectroscopic studies. <i>Journal of the Chemical Society, Faraday Transactions 2</i> , 1975, 71, 177.	1.1	40