

John S Preston

List of Publications by Year in descending order

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89
papers

3,972
citations

218381

26
h-index

118652

62
g-index

89
all docs

89
docs citations

89
times ranked

3181
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser-induced periodic surface structure. I. Theory. Physical Review B, 1983, 27, 1141-1154.	1.1	1,153
2	Laser-induced periodic surface structure. II. Experiments on Ge, Si, Al, and brass. Physical Review B, 1983, 27, 1155-1172.	1.1	584
3	Microwave spectroscopy of thermally excited quasiparticles in YBa ₂ Cu ₃ O _{6.99} . Physical Review B, 1999, 60, 1349-1359.	1.1	193
4	Disorder and superconducting-state conductivity of single crystals of YBa ₂ Cu ₃ O _{6.95} . Physical Review B, 1994, 49, 12165-12169.	1.1	122
5	Laser drilling of high aspect ratio holes in copper with femtosecond, picosecond and nanosecond pulses. Applied Physics A: Materials Science and Processing, 2008, 90, 537-543.	1.1	119
6	In situ growth of layered, spinel, and rock salt LiCoO ₂ by laser ablation deposition. Journal of Applied Physics, 1994, 76, 2799-2806.	1.1	103
7	Intrinsic picosecond response times of YBaCuO superconducting photodetectors. Applied Physics Letters, 1999, 74, 853-855.	1.5	98
8	Laser-induced periodic surface damage and radiation remnants. Applied Physics Letters, 1982, 41, 261-264.	1.5	88
9	Observation of Weak-Limit Quasiparticle Scattering via Broadband Microwave Spectroscopy of a d-Wave Superconductor. Physical Review Letters, 2003, 90, 237005.	2.9	67
10	Vertically aligned wurtzite CdTe nanowires derived from a catalytically driven growth mode. Nanotechnology, 2007, 18, 275301.	1.3	67
11	Electro-optic sampling of 1.5 ps photoresponse signal from YBa ₂ Cu ₃ O _{7-x} thin films. Applied Physics Letters, 1995, 67, 285-287.	1.5	63
12	Phonon-wind-driven transport of photoexcited carriers in a semiconductor quantum well. Physical Review B, 1989, 39, 1862-1870.	1.1	58
13	Photovoltaic properties of M-phthalocyanine/fullerene organic solar cells. Solar Energy, 2012, 86, 1683-1688.	2.9	58
14	Origin of the fast photoresponse of epitaxial YBa ₂ Cu ₃ O _{7-x} thin films. Physical Review B, 1993, 48, 16023-16039.	1.1	57
15	Subsurface modifications in indium phosphide induced by single and multiple femtosecond laser pulses: A study on the formation of periodic ripples. Journal of Applied Physics, 2007, 101, 033519.	1.1	55
16	Plasmon Field Effects on the Nonradiative Relaxation of Hot Electrons in an Electronically Quantized System: CdTe@Au Core-Shell Nanowires. Nano Letters, 2008, 8, 2410-2418.	4.5	50
17	Ripple formation during deep hole drilling in copper with ultrashort laser pulses. Applied Physics A: Materials Science and Processing, 2007, 89, 1001-1003.	1.1	48
18	Ultrafast photoresponse in microbridges and pulse propagation in transmission lines made from high-T _c /superconducting Y-Ba-Cu-O thin films. IEEE Journal of Selected Topics in Quantum Electronics, 1996, 2, 668-678.	1.9	47

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19	Strain relief and AlSb buffer layer morphology in GaSb heteroepitaxial films grown on Si as revealed by high-angle annular dark-field scanning transmission electron microscopy. Applied Physics Letters, 2011, 98, .	1.5	45
20	Pattern formation during laser melting of silicon. Physical Review B, 1989, 40, 3942-3954.	1.1	37
21	Infrared Hall Effect in High-Tc Superconductors: Evidence for Non-Fermi-Liquid Hall Scattering. Physical Review Letters, 2000, 84, 3418-3421.	2.9	35
22	Kinetics of plasmas and melting induced in silicon and germanium by nanosecond laser pulses. Physical Review B, 1984, 30, 1950-1956.	1.1	32
23	Current-voltage characteristics of dc voltage biased high temperature superconducting microbridges. Applied Physics Letters, 1995, 66, 2576-2578.	1.5	32
24	Bolometric technique for high-resolution broadband microwave spectroscopy of ultra-low-loss samples. Review of Scientific Instruments, 2004, 75, 124-135.	0.6	30
25	Order-Disorder Transitions in the Melt Morphology of Laser-Irradiated Silicon. Physical Review Letters, 1987, 58, 69-72.	2.9	29
26	The role of lattice mismatch in the deposition of CdTe thin films. Journal of Electronic Materials, 2006, 35, 1224-1230.	1.0	28
27	Femtosecond laser-based fabrication of a new model material to study fracture. Applied Physics A: Materials Science and Processing, 2006, 86, 55-61.	1.1	26
28	The role of substrate surface alteration in the fabrication of vertically aligned CdTe nanowires. Nanotechnology, 2008, 19, 185601.	1.3	26
29	Josephson current in an anisotropic-d-wave model. Physical Review B, 1995, 51, 6588-6593.	1.1	25
30	Confinement of laser-generated carriers in semiconductors by induced lattice temperature gradients. Applied Physics Letters, 1982, 40, 385-387.	1.5	24
31	Time-resolved evolution of laser-induced periodic surface structure on germanium. Physical Review B, 1983, 27, 1424-1427.	1.1	24
32	Picosecond photoresponse of epitaxial YBa ₂ Cu ₃ O _{7-x} thin films. Applied Physics Letters, 1994, 64, 3172-3174.	1.5	24
33	Integration of an M-phthalocyanine layer into solution-processed organic photovoltaic cells for improved spectral coverage. Solar Energy Materials and Solar Cells, 2011, 95, 1970-1973.	3.0	24
34	Evaluation of LaSrGaO ₄ as a substrate for YBa ₂ Cu ₃ O _{7-x} . Physica C: Superconductivity and Its Applications, 1994, 225, 7-12.	0.6	22
35	Magneto-optical Evidence for a Gapped Fermi Surface in Underdoped YBa ₂ Cu ₃ O _{6+x} . Physical Review Letters, 2004, 93, 137002.	2.9	22
36	Structural and transport properties of epitaxial niobium-doped BaTiO ₃ films. Applied Physics Letters, 2008, 93, 192114.	1.5	21

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37	Self-activated reversibility in the magnetically induced reorientation of martensitic variants in ferromagnetic Ni-Mn-Ga films. <i>Physical Review B</i> , 2010, 81, .	1.1	21
38	A simple parallel tandem organic solar cell based on metallophthalocyanines. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	21
39	Epitaxially Driven Formation of Intricate Supported Gold Nanostructures on a Lattice-Matched Oxide Substrate. <i>Nano Letters</i> , 2009, 9, 4258-4263.	4.5	20
40	In situ growth of PbSrYCaCuO films by laser ablation. <i>Applied Physics Letters</i> , 1991, 58, 762-764.	1.5	18
41	Normal-state optical properties of Nd _{1.85} Ce _{0.15} CuO ₄ + δ . <i>Physical Review B</i> , 1993, 47, 985-990.	1.1	17
42	Measurement of nonlinear absorption coefficients in GaAs, InP and Si by an optical pump THz probe technique. <i>Optics Communications</i> , 2007, 274, 187-197.	1.0	17
43	The Dependence of the Plasmon Field Induced Nonradiative Electronic Relaxation Mechanisms on the Gold Shell Thickness in Vertically Aligned CdTe@Au Core@Shell Nanorods. <i>Nano Letters</i> , 2009, 9, 3772-3779.	4.5	17
44	Identification of nonbolometric photoresponse in YBa ₂ Cu ₃ O _{7-x} thin films based on magnetic field dependence. <i>Applied Physics Letters</i> , 1993, 62, 1158-1160.	1.5	16
45	Atypical grain growth for (211) CdTe films deposited on surface reconstructed (100) SrTiO ₃ substrates. <i>Applied Surface Science</i> , 2009, 255, 5674-5681.	3.1	16
46	Atomic structure and bonding of the interfacial bilayer between Au nanoparticles and epitaxially regrown MgAl ₂ O ₄ substrates. <i>Applied Physics Letters</i> , 2014, 105, .	1.5	16
47	The role of substrate surface termination in the deposition of CdTe on (0001) sapphire. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 96, 429-433.	1.1	15
48	Exciton Lifetime Tuning by Changing the Plasmon Field Orientation with Respect to the Exciton Transition Moment Direction: CdTe-Au Core@Shell Nanorods. <i>Nano Letters</i> , 2009, 9, 1242-1248.	4.5	15
49	Interpretation of the harmonic response of superconducting films to inhomogeneous ac magnetic fields. <i>Physical Review B</i> , 1993, 48, 1077-1084.	1.1	14
50	Evolution of wurtzite CdTe through the formation of cluster assembled films. <i>Applied Physics Letters</i> , 2006, 89, 133101.	1.5	14
51	Plasmonic Enhancement of Nonradiative Charge Carrier Relaxation and Proposed Effects from Enhanced Radiative Electronic Processes in Semiconductor@Gold Core@Shell Nanorod Arrays. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5578-5583.	1.5	14
52	Rubrene as an additive in M-phthalocyanine/fullerene organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 3137-3141.	3.0	13
53	Heteromorphic chloroindium phthalocyanine films for improved photovoltaic performance. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 2937-2940.	3.0	13
54	Optical absorption in metallic-dielectric microstructures. <i>Physical Review B</i> , 1989, 40, 3931-3941.	1.1	10

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55	Growth of $(\text{Pb}_{0.75}\text{Cu}_{0.25})\text{Sr}_2(\text{Y}_{1-x}\text{Ca}_x)\text{Cu}_2\text{O}_7$ thin films by laser ablation. <i>Applied Physics Letters</i> , 1991, 59, 2597-2599.	1.5	10
56	Laser ablation as a processing technique for metallic and polymer layered structures. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 1994, 7, 73-78.	1.4	10
57	Growth of $\text{CdTe}/\text{Si}(100)$ thin films by pulsed laser deposition for photonic applications. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006, 24, 606-611.	0.9	10
58	Blend composition study of poly(3,3'-didodecylquaterthiophene)/[6,6]-phenyl C61 butyric acid methyl ester solution processed organic solar cells. <i>Journal of Applied Physics</i> , 2009, 105, 016105.	1.1	10
59	(100) MgAl_2O_4 as a lattice-matched substrate for the epitaxial thin film deposition of the relaxor ferroelectric PMN-PT. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 98, 187-194.	1.1	9
60	Semiconductor nanotechnology: novel materials and devices for electronics, photonics and renewable energy applications. <i>Nanotechnology</i> , 2010, 21, 130201.	1.3	9
61	Evidence for an equilibrium epitaxial complexion at the Au- MgAl_2O_4 interface. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	9
62	Quantum fluctuations in current-carrying thin films of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Physical Review B</i> , 1997, 55, R14741-R14744.	1.1	8
63	Temperature-Induced Atomic Reconstruction At Au/ MgAl_2O_4 Interfaces. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701664.	1.9	8
64	Growth of $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$ thin films by laser ablation. <i>Physica C: Superconductivity and Its Applications</i> , 1992, 197, 75-78.	0.6	7
65	Improved stability of solution processed photovoltaic devices using PQT-12. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 2455-2458.	3.0	7
66	Switching speed for controlled damping using thin film $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>Cryogenics</i> , 1997, 37, 113-116.	0.9	6
67	A DFT study on the effect of surface termination in $\text{CdTe}(111)/\text{Al}_2\text{O}_3(0001)$ heteroepitaxy. <i>Surface Science</i> , 2015, 632, 93-97.	0.8	6
68	A superconducting microwave switch. <i>IEEE Transactions on Applied Superconductivity</i> , 1995, 5, 3046-3048.	1.1	5
69	Observation of separate electron and hole escape rates in unbiased strained InGaAsP multiple quantum well laser structures. <i>Applied Physics Letters</i> , 1993, 62, 2525-2527.	1.5	4
70	Local characterization of Y-Ba-Cu-O thin films. <i>IEEE Transactions on Applied Superconductivity</i> , 2001, 11, 3226-3229.	1.1	4
71	Detwinning $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films. <i>Applied Physics Letters</i> , 2003, 82, 3728-3730.	1.5	4
72	Microstructure and current transport properties of single-layer $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ and multiple-layer $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}/(\text{Ba}_{0.05}, \text{Sr}_{0.95})\text{TiO}_3$ superconductor films. <i>Thin Solid Films</i> , 2005, 488, 217-222.	0.8	4

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73	The origin of preferential twinning in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films deposited on the (0 0 1) NdGaO_3 substrate. <i>Journal of Applied Physics</i> , 2005, 97, 123906.	1.1	4
74	High-speed kinetic inductive bolometric photoresponse of epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films. , 1994, 2159, 88.		3
75	Defect characterization of CdTe thin films using a slow positron beam. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007, 4, 3659-3663.	0.8	3
76	Percolative effects in oxygen-depleted $\text{YBa}_2\text{Cu}_3\text{O}_x$ wires. <i>Physical Review B</i> , 2004, 70, .	1.1	2
77	Chemically ordered fcc (111) Mn^{2+} ($\text{Fe}_x\text{Ni}_{1-x}$) alloy ultrathin films. <i>Surface Science</i> , 2005, 588, 49-60.	0.8	2
78	Thermionic emission and tunneling in a strained InGaAsP 1.3 um multiple quantum well laser structure. , 1994, , .		1
79	Picosecond photoresponse of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films. <i>European Physical Journal D</i> , 1996, 46, 1111-1112.	0.4	1
80	The role of lattice misfit strains in the deposition of epitaxial $(\text{Ba}_{1-y}\text{Sr}_y)\text{Ti}_0.5\text{Nb}_0.5\text{O}_3$ films. <i>Journal of Crystal Growth</i> , 2009, 311, 2753-2758.	0.7	1
81	Purified water etching of native oxides on heteroepitaxial CdTe thin films. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 495304.	1.3	1
82	Spontaneous Relaxation of Heteroepitaxial Thin Films by van der Waals-Like Bonding on Te-Terminated Sapphire Substrates. <i>Small</i> , 2020, 16, e2004437.	5.2	1
83	Observation of a solet-dufour effect for laser-generated carriers in germanium. <i>Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics</i> , 1983, 117-118, 1021-1023.	0.9	0
84	Flux dynamics in thin films of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$. <i>European Physical Journal D</i> , 1996, 46, 1633-1634.	0.4	0
85	Penetration depth from far-infrared transmission in $\text{YBa}_2\text{Cu}_3\text{O}_7$ thin films. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1998, 20, 563-572.	0.4	0
86	Terahertz pump-probe spectroscopy in YBCO thin films. , 2004, , .		0
87	Laser Scanning Microscopy Studies on Detwinned $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Thin Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2005, 15, 3082-3085.	1.1	0
88	The rapid prototyping of textured amorphous surfaces for the graphoepitaxial deposition of CdTe films using a focused ion beam lithography. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 102, 259-264.	1.1	0
89	Metal-Oxide Interfaces: Temperature-Induced Atomic Reconstruction At Au/MgAl ₂ O ₄ Interfaces (Adv.) <i>Tj ETQq1 1 0,784314 rgBT /Over</i>	1.9	0