

John S Preston

List of Publications by Year in descending order

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218677

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#	ARTICLE	IF	CITATIONS
1	Spontaneous Relaxation of Heteroepitaxial Thin Films by van der Waals-Like Bonding on Te-Terminated Sapphire Substrates. <i>Small</i> , 2020, 16, e2004437.	10.0	1
2	Temperature-Induced Atomic Reconstruction At Au/MgAl ₂ O ₄ Interfaces. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701664.	3.7	8
3	Metal-Oxide Interfaces: Temperature-Induced Atomic Reconstruction At Au/MgAl ₂ O ₄ Interfaces (Adv.) <i>Tj ETQq1 1 0.784314 JgBT /O</i>	3.7	0
4	Evidence for an equilibrium epitaxial complexion at the Au-MgAl ₂ O ₄ interface. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	9
5	A DFT study on the effect of surface termination in CdTe (111)/Al ₂ O ₃ (0001) heteroepitaxy. <i>Surface Science</i> , 2015, 632, 93-97.	1.9	6
6	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, .	3.3	16
7	Purified water etching of native oxides on heteroepitaxial CdTe thin films. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 495304.	2.8	1
8	Photovoltaic properties of M-phthalocyanine/fullerene organic solar cells. <i>Solar Energy</i> , 2012, 86, 1683-1688.	6.1	58
9	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.	3.1	14
10	A simple parallel tandem organic solar cell based on metallophthalocyanines. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	21
11	Rubrene as an additive in M-phthalocyanine/fullerene organic solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 3137-3141.	6.2	13
12	Heteromorphic chloroindium phthalocyanine films for improved photovoltaic performance. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 2937-2940.	6.2	13
13	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. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	45
14	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.	2.3	0
15	Integration of an M-phthalocyanine layer into solution-processed organic photovoltaic cells for improved spectral coverage. <i>Solar Energy Materials and Solar Cells</i> , 2011, 95, 1970-1973.	6.2	24
16	(100) MgAl ₂ O 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.	2.3	9
17	Improved stability of solution processed photovoltaic devices using PQT-12. <i>Solar Energy Materials and Solar Cells</i> , 2010, 94, 2455-2458.	6.2	7
18	Self-activated reversibility in the magnetically induced reorientation of martensitic variants in ferromagnetic Ni-Mn-Ga films. <i>Physical Review B</i> , 2010, 81, .	3.2	21

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19	Semiconductor nanotechnology: novel materials and devices for electronics, photonics and renewable energy applications. <i>Nanotechnology</i> , 2010, 21, 130201.	2.6	9
20	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.	2.5	10
21	Atypical grain growth for (211) CdTe films deposited on surface reconstructed (100) SrTiO ₃ substrates. <i>Applied Surface Science</i> , 2009, 255, 5674-5681.	6.1	16
22	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.	2.3	15
23	The role of lattice misfit strains in the deposition of epitaxial $(\text{Ba}_{1-x}\text{Sr}_x)\text{Ti}_{0.5}\text{Nb}_{0.5}\text{O}_3$ films. <i>Journal of Crystal Growth</i> , 2009, 311, 2753-2758.	1.5	1
24	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.	9.1	17
25	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.	9.1	15
26	Epitaxially Driven Formation of Intricate Supported Gold Nanostructures on a Lattice-Matched Oxide Substrate. <i>Nano Letters</i> , 2009, 9, 4258-4263.	9.1	20
27	Laser drilling of high aspect ratio holes in copper with femtosecond, picosecond and nanosecond pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 90, 537-543.	2.3	119
28	The role of substrate surface alteration in the fabrication of vertically aligned CdTe nanowires. <i>Nanotechnology</i> , 2008, 19, 185601.	2.6	26
29	Plasmon Field Effects on the Nonradiative Relaxation of Hot Electrons in an Electronically Quantized System: CdTe@Au Core@Shell Nanowires. <i>Nano Letters</i> , 2008, 8, 2410-2418.	9.1	50
30	Structural and transport properties of epitaxial niobium-doped BaTiO ₃ films. <i>Applied Physics Letters</i> , 2008, 93, 192114.	3.3	21
31	Vertically aligned wurtzite CdTe nanowires derived from a catalytically driven growth mode. <i>Nanotechnology</i> , 2007, 18, 275301.	2.6	67
32	Subsurface modifications in indium phosphide induced by single and multiple femtosecond laser pulses: A study on the formation of periodic ripples. <i>Journal of Applied Physics</i> , 2007, 101, 033519.	2.5	55
33	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.	2.1	17
34	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
35	Ripple formation during deep hole drilling in copper with ultrashort laser pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2007, 89, 1001-1003.	2.3	48
36	Femtosecond laser-based fabrication of a new model material to study fracture. <i>Applied Physics A: Materials Science and Processing</i> , 2006, 86, 55-61.	2.3	26

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37	The role of lattice mismatch in the deposition of CdTe thin films. Journal of Electronic Materials, 2006, 35, 1224-1230.	2.2	28
38	Evolution of wurtzite CdTe through the formation of cluster assembled films. Applied Physics Letters, 2006, 89, 133101.	3.3	14
39	Growth of CdTe/Si(100) thin films by pulsed laser deposition for photonic applications. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 606-611.	2.1	10
40	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. Thin Solid Films, 2005, 488, 217-222.	1.8	4
41	Chemically ordered fcc (111) $\text{Mn}(\text{Fe}_x\text{Ni}_{1-x})$ alloy ultrathin films. Surface Science, 2005, 588, 49-60.	1.9	2
42	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. Journal of Applied Physics, 2005, 97, 123906.	2.5	4
43	Laser Scanning Microscopy Studies on Detwinned $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Thin Films. IEEE Transactions on Applied Superconductivity, 2005, 15, 3082-3085.	1.7	0
44	Percolative effects in oxygen-depleted $\text{YBa}_2\text{Cu}_3\text{O}_x$ wires. Physical Review B, 2004, 70, .	3.2	2
45	Magneto-optical Evidence for a Gapped Fermi Surface in Underdoped $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$. Physical Review Letters, 2004, 93, 137002.	7.8	22
46	Bolometric technique for high-resolution broadband microwave spectroscopy of ultra-low-loss samples. Review of Scientific Instruments, 2004, 75, 124-135.	1.3	30
47	Terahertz pump-probe spectroscopy in YBCO thin films. , 2004, , .		0
48	Observation of Weak-Limit Quasiparticle Scattering via Broadband Microwave Spectroscopy of ad-Wave Superconductor. Physical Review Letters, 2003, 90, 237005.	7.8	67
49	Detwinning $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films. Applied Physics Letters, 2003, 82, 3728-3730.	3.3	4
50	Local characterization of Y-Ba-Cu-O thin films. IEEE Transactions on Applied Superconductivity, 2001, 11, 3226-3229.	1.7	4
51	Infrared Hall Effect in High-Tc Superconductors: Evidence for Non-Fermi-Liquid Hall Scattering. Physical Review Letters, 2000, 84, 3418-3421.	7.8	35
52	Microwave spectroscopy of thermally excited quasiparticles in $\text{YBa}_2\text{Cu}_3\text{O}_{6.99}$. Physical Review B, 1999, 60, 1349-1359.	3.2	193
53	Intrinsic picosecond response times of YBaCuO superconducting photodetectors. Applied Physics Letters, 1999, 74, 853-855.	3.3	98
54	Penetration depth from far-infrared transmission in $\text{YBa}_2\text{Cu}_3\text{O}_7$ thin films. Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics, 1998, 20, 563-572.	0.4	0

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55	Quantum fluctuations in current-carrying thin films of YBa ₂ Cu ₃ O _{7-δ} . Physical Review B, 1997, 55, R14741-R14744.	3.2	8
56	Switching speed for controlled damping using thin film YBa ₂ Cu ₃ O _{7-δ} . Cryogenics, 1997, 37, 113-116.	1.7	6
57	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.	2.9	47
58	Flux dynamics in thin films of YBa ₂ Cu ₃ O _{7-δ} . European Physical Journal D, 1996, 46, 1633-1634.	0.4	0
59	Picosecond photoresponse of YBa ₂ Cu ₃ O _{7-δ} thin films. European Physical Journal D, 1996, 46, 1111-1112.	0.4	1
60	Josephson current in an anisotropic d-wave model. Physical Review B, 1995, 51, 6588-6593.	3.2	25
61	Current-voltage characteristics of dc voltage biased high temperature superconducting microbridges. Applied Physics Letters, 1995, 66, 2576-2578.	3.3	32
62	A superconducting microwave switch. IEEE Transactions on Applied Superconductivity, 1995, 5, 3046-3048.	1.7	5
63	Electro-optic sampling of 1.5 ps photoresponse signal from YBa ₂ Cu ₃ O _{7-δ} thin films. Applied Physics Letters, 1995, 67, 285-287.	3.3	63
64	Picosecond photoresponse of epitaxial YBa ₂ Cu ₃ O _{7-δ} thin films. Applied Physics Letters, 1994, 64, 3172-3174.	3.3	24
65	Disorder and superconducting-state conductivity of single crystals of YBa ₂ Cu ₃ O _{6.95} . Physical Review B, 1994, 49, 12165-12169.	3.2	122
66	Laser ablation as a processing technique for metallic and polymer layered structures. IEEE Transactions on Semiconductor Manufacturing, 1994, 7, 73-78.	1.7	10
67	Evaluation of LaSrGaO ₄ as a substrate for YBa ₂ Cu ₃ O _{7-δ} . Physica C: Superconductivity and Its Applications, 1994, 225, 7-12.	1.2	22
68	In situ growth of layered, spinel, and rock salt LiCoO ₂ by laser ablation deposition. Journal of Applied Physics, 1994, 76, 2799-2806.	2.5	103
69	<title>Thermionic emission and tunneling in a strained InGaAsP 1.3 um multiple quantum well laser structure</title>., 1994, , .		1
70	High-speed kinetic inductive bolometric photoresponse of epitaxial YBa ₂ Cu ₃ O _{7-δ} thin films. , 1994, 2159, 88.		3
71	Origin of the fast photoresponse of epitaxial YBa ₂ Cu ₃ O _{7-δ} thin films. Physical Review B, 1993, 48, 16023-16039.	3.2	57
72	Observation of separate electron and hole escape rates in unbiased strained InGaAsP multiple quantum well laser structures. Applied Physics Letters, 1993, 62, 2525-2527.	3.3	4

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73	Identification of nonbolometric photoresponse in YBa ₂ Cu ₃ O _{7-x} thin films based on magnetic field dependence. Applied Physics Letters, 1993, 62, 1158-1160.	3.3	16
74	Normal-state optical properties of Nd _{1.85} Ce _{0.15} CuO _{4-x} . Physical Review B, 1993, 47, 985-990.	3.2	17
75	Interpretation of the harmonic response of superconducting films to inhomogeneous ac magnetic fields. Physical Review B, 1993, 48, 1077-1084.	3.2	14
76	Growth of Nd _{1.85} Ce _{0.15} CuO _{4-x} thin films by laser ablation. Physica C: Superconductivity and Its Applications, 1992, 197, 75-78.	1.2	7
77	Growth of (Pb _{0.75} Cu _{0.25})Sr ₂ (Y _{1-x} Ca _x)Cu ₂ O ₇ thin films by laser ablation. Applied Physics Letters, 1991, 59, 2597-2599.	3.3	10
78	In situ growth of PbSrYCaCuO films by laser ablation. Applied Physics Letters, 1991, 58, 762-764.	3.3	18
79	Phonon-wind-driven transport of photoexcited carriers in a semiconductor quantum well. Physical Review B, 1989, 39, 1862-1870.	3.2	58
80	Optical absorption in metallic-dielectric microstructures. Physical Review B, 1989, 40, 3931-3941.	3.2	10
81	Pattern formation during laser melting of silicon. Physical Review B, 1989, 40, 3942-3954.	3.2	37
82	Order-Disorder Transitions in the Melt Morphology of Laser-Irradiated Silicon. Physical Review Letters, 1987, 58, 69-72.	7.8	29
83	Kinetics of plasmas and melting induced in silicon and germanium by nanosecond laser pulses. Physical Review B, 1984, 30, 1950-1956.	3.2	32
84	Laser-induced periodic surface structure. I. Theory. Physical Review B, 1983, 27, 1141-1154.	3.2	1,153
85	Observation of a Soret-Dufour effect for laser-generated carriers in germanium. Physica B: Physics of Condensed Matter & C: Atomic, Molecular and Plasma Physics, Optics, 1983, 117-118, 1021-1023.	0.9	0
86	Time-resolved evolution of laser-induced periodic surface structure on germanium. Physical Review B, 1983, 27, 1424-1427.	3.2	24
87	Laser-induced periodic surface structure. II. Experiments on Ge, Si, Al, and brass. Physical Review B, 1983, 27, 1155-1172.	3.2	584
88	Confinement of laser-generated carriers in semiconductors by induced lattice temperature gradients. Applied Physics Letters, 1982, 40, 385-387.	3.3	24
89	Laser-induced periodic surface damage and radiation remnants. Applied Physics Letters, 1982, 41, 261-264.	3.3	88