

Roy Clarke

List of Publications by Year in descending order

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42
papers

495
citations

759233

12
h-index

677142

22
g-index

43
all docs

43
docs citations

43
times ranked

623
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduced bias growth of pure-phase cubic boron nitride. Applied Physics Letters, 1997, 71, 1969-1971.	3.3	68
2	Low energy kinetic threshold in the growth of cubic boron nitride films. Applied Physics Letters, 1994, 64, 1859-1861.	3.3	59
3	In situ texture monitoring for growth of oriented cubic boron nitride films. Applied Physics Letters, 1999, 74, 955-957.	3.3	56
4	Wideband detection of transient solid-state dynamics using ultrafast fiber lasers and asynchronous optical sampling. Optics Express, 2008, 16, 2322.	3.4	38
5	In situ thin-film texture determination. Journal of Applied Physics, 1999, 85, 2151-2156.	2.5	37
6	Alloy-Free Band Gap Tuning across the Visible Spectrum. Physical Review Letters, 2019, 122, 256403.	7.8	37
7	An alternate route to giant magnetoresistance in MBE-grown Co/Cu superlattices (invited). Journal of Applied Physics, 1994, 75, 6174-6177.	2.5	29
8	Coherent optical phonon spectroscopy studies of femtosecond-laser modified Sb ₂ Te ₃ films. Applied Physics Letters, 2010, 97, 171908.	3.3	29
9	Untilting BiFeO ₃ : The influence of substrate boundary conditions in ultra-thin BiFeO ₃ on SrTiO ₃ . APL Materials, 2013, 1, .	5.1	18
10	Origin of stress and enhanced carrier transport in solution-cast organic semiconductor films. Journal of Applied Physics, 2013, 114, 093501.	2.5	17
11	Femtosecond laser-induced nanostructure formation in Sb ₂ Te ₃ . Applied Physics Letters, 2011, 99, .	3.3	15
12	Heat conduction of (111) Co/Cu superlattices. Journal of Applied Physics, 1997, 81, 4586-4588.	2.5	14
13	Printing of small molecular medicines from the vapor phase. Nature Communications, 2017, 8, 711.	12.8	12
14	Temperature dependence of the magnetization reversal in Co(fcc)/BN/Co(poly hcp) structures. Journal of Applied Physics, 1999, 85, 5765-5767.	2.5	8
15	Magnetic confinement of Brownian rotation to a single axis and application to Janus and cluster microparticles. Applied Physics Letters, 2010, 97, 144103.	3.3	8
16	Origin of thickness dependence of structural phase transition temperatures in highly strained BiFeO ₃ thin films. APL Materials, 2016, 4, 036106.	5.1	7
17	Real-time X-ray studies using CCDs. Synchrotron Radiation News, 1991, 4, 24-28.	0.8	5
18	Kinetics Approach To The Growth Of Cubic Boron Nitride. Materials Research Society Symposia Proceedings, 1996, 423, 265.	0.1	5

#	ARTICLE	IF	CITATIONS
19	Epitaxial growth of (001) and (111) Ni films on MgO substrates. Materials Research Society Symposia Proceedings, 2000, 648, 1.	0.1	5
20	Growth Parameter Based Control of Cation Disorder in MgSnN ₂ Thin Films. Journal of Electronic Materials, 2021, 50, 2949-2955.	2.2	5
21	High-Field Giant Magnetoresistance in Co-Cu Superlattices. Materials Research Society Symposia Proceedings, 1993, 313, 35.	0.1	4
22	Spatial Mapping of Morphology and Electronic Properties of Air-Printed Pentacene Thin Films. Advanced Functional Materials, 2014, 24, 3907-3916.	14.9	4
23	Silicon Photomultipliers for Deep Tissue Cerenkov Emission Detection During External Beam Radiotherapy. IEEE Photonics Journal, 2019, 11, 1-16.	2.0	4
24	Fabrication of Nanoparticles and Microspheres with Uniform Magnetic Half-Shells. Materials Research Society Symposia Proceedings, 2005, 899, 1.	0.1	2
25	Carrier dynamics of intermediate sub-bandgap transitions in ZnTeO. Journal of Applied Physics, 2019, 126, 135701.	2.5	2
26	Epitaxial Co-Cu Superlattices. Materials Research Society Symposia Proceedings, 1991, 231, 235.	0.1	1
27	Exafs Study of Co/Cu Multilayers: Mbe Versus Sputtered. Materials Research Society Symposia Proceedings, 1994, 375, 207.	0.1	1
28	Morphological Transition of Epitaxial Rhodium (111). Materials Research Society Symposia Proceedings, 1995, 399, 243.	0.1	1
29	Surface morphology and magnetization reversal. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2003, 21, 1524-1527.	2.1	1
30	Thin Films: Understanding Strain-Induced Phase Transformations in BiFeO ₃ Thin Films (Adv. Sci. 8/2015). Advanced Science, 2015, 2, .	11.2	1
31	Measuring Tumor Microenvironment pH During Radiotherapy Using a Novel Cerenkov Emission Multispectral Optical Probe Based on Silicon Photomultipliers. Frontiers in Physics, 2021, 9, .	2.1	1
32	Epitaxy of Co-Metal Superlattices. Materials Research Society Symposia Proceedings, 1991, 221, 243.	0.1	0
33	Real Time X-Ray Studies of Interface Kinetics in Epitaxial Strained Layers. Materials Research Society Symposia Proceedings, 1991, 230, 225.	0.1	0
34	MBE-Grown Epitaxial Co/Cr Superlattices. Materials Research Society Symposia Proceedings, 1991, 231, 385.	0.1	0
35	Real-Time Studies of Interface Structural Dynamics. Materials Research Society Symposia Proceedings, 1991, 237, 367.	0.1	0
36	Low Temperature Annealing of Rh (111) Surfaces. Materials Research Society Symposia Proceedings, 1996, 440, 317.	0.1	0

#	ARTICLE	IF	CITATIONS
37	Smoothing of (001) and (111) Cu films epitaxially grown on Si substrates. Materials Research Society Symposia Proceedings, 2000, 648, 1.	0.1	0
38	Direct Determination of the Stacking Order in Gd ₂ O ₃ Epi-Layers on GaAs. Materials Research Society Symposia Proceedings, 2002, 751, 1.	0.1	0
39	Probing laser-induced structural changes using coherent phonon detection. , 2008, , .		0
40	Ultrafast-laser Modification of Thermoelectric Sb ₂ Te ₃ Thin Films. Materials Research Society Symposia Proceedings, 2012, 1456, 1.	0.1	0
41	Organic Electronics: Spatial Mapping of Morphology and Electronic Properties of Air-Printed Pentacene Thin Films (Adv. Funct. Mater. 25/2014). Advanced Functional Materials, 2014, 24, 3906-3906.	14.9	0
42	Bridge to success and inclusivity. MRS Bulletin, 2019, 44, 134-136.	3.5	0