

Robert E Peale

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

680
citations

623734

14
h-index

552781

26
g-index

40
all docs

40
docs citations

40
times ranked

885
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface and grain-boundary scattering in nanometric Cu films. <i>Physical Review B</i> , 2010, 81, .	3.2	172
2	Dominant role of grain boundary scattering in the resistivity of nanometric Cu films. <i>Physical Review B</i> , 2009, 79, .	3.2	98
3	Infrared surface plasmons on heavily doped silicon. <i>Journal of Applied Physics</i> , 2011, 110, 123105.	2.5	81
4	Far infrared spectroscopy of carbonate minerals. <i>American Mineralogist</i> , 2010, 95, 1515-1522.	1.9	36
5	Long-wave infrared surface plasmon grating coupler. <i>Applied Optics</i> , 2010, 49, 3102.	2.1	26
6	Fluorine-doped tin oxides for mid-infrared plasmonics. <i>Optical Materials Express</i> , 2015, 5, 2184.	3.0	21
7	Propionaldehyde infrared cross-sections and band strengths. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2015, 152, 107-113.	2.3	20
8	Optical Salisbury screen with design-tunable resonant absorption bands. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	18
9	Infrared imaging spectroscopy with micron resolution of Sutter's Mill meteorite grains. <i>Meteoritics and Planetary Science</i> , 2014, 49, 2027-2037.	1.6	18
10	Infrared absorption cross sections of several organo-phosphorous chemical-weapon simulants. <i>Journal of Molecular Spectroscopy</i> , 2019, 355, 59-65.	1.2	18
11	Infrared surface polaritons on antimony. <i>Optics Express</i> , 2012, 20, 2693.	3.4	17
12	Electrodynamic properties of aqueous spray-deposited SnO ₂ :F films for infrared plasmonics. <i>Optical Engineering</i> , 2017, 56, 037109.	1.0	16
13	Fano-Resonance Photonic Crystal Membrane Reflectors at Mid- and Far-Infrared. <i>IEEE Photonics Journal</i> , 2013, 5, 4700206-4700206.	2.0	15
14	Platinum germanides for mid- and long-wave infrared plasmonics. <i>Optics Express</i> , 2015, 23, 3316.	3.4	14
15	Synchrotron-Based Three-Dimensional Fourier-Transform Infrared Spectro-Microtomography of Murchison Meteorite Grain. <i>Applied Spectroscopy</i> , 2017, 71, 1198-1208.	2.2	14
16	Infrared surface polaritons on bismuth. <i>Journal of Nanophotonics</i> , 2015, 9, 093792.	1.0	12
17	Organic and inorganic correlations for Northwest Africa 852 by synchrotron-based Fourier transform infrared microspectroscopy. <i>Meteoritics and Planetary Science</i> , 2015, 50, 1684-1696.	1.6	11
18	Aging of nano-morphology, resistivity, and far-infrared absorption in gold-black. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	10

#	ARTICLE	IF	CITATIONS
19	Terahertz/Millimeter Wave Characterizations of Soils for Mine Detection: Transmission and Scattering. Journal of Infrared, Millimeter and Terahertz Waves, 2008, 29, 769-781.	0.6	9
20	Micro electro mechanical cantilever with electrostatically controlled tip contact. Applied Physics Letters, 2014, 105, 033514.	3.3	7
21	Effect of dispersion on metal-insulator-metal infrared absorption resonances. MRS Communications, 2018, 8, 830-834.	1.8	7
22	Far-infrared bands in plasmonic metal-insulator-metal absorbers optimized for long-wave infrared. MRS Advances, 2019, 4, 667-674.	0.9	7
23	Electronic detection of surface plasmon polaritons by metal-oxide-silicon capacitor. APL Photonics, 2016, 1, 066103.	5.7	6
24	Impact of temperature and gamma radiation on electron diffusion length and mobility in p-type InAs/GaSb superlattices. Journal of Applied Physics, 2018, 123, .	2.5	6
25	Ropy foam-like TiO2 film grown by water-based process for electron-conduction layer of perovskite solar cells. MRS Advances, 2016, 1, 3169-3174.	0.9	4
26	Stress Analysis of Free-Standing Silicon Oxide Films Using Optical Interference. Materials Research Society Symposia Proceedings, 2013, 1536, 155-160.	0.1	3
27	Optical and electrical properties of tin oxide-based thin films prepared by streaming process for electrodeless electrochemical deposition. Materials Research Society Symposia Proceedings, 2015, 1805, 1.	0.1	3
28	Far-infrared spectrally selective LiTaO3 and AlN pyroelectric detectors using resonant subwavelength metal surface structures. MRS Advances, 2020, 5, 2005-2012.	0.9	3
29	Metal-oxide-semiconductor photocapacitor for sensing surface plasmon polaritons. Proceedings of SPIE, 2015, , .	0.8	2
30	Effect of Compound Dielectric and Metal Thinning on Metal-Insulator-Metal Resonant Absorbers for Multispectral Infrared Air-Bridge Bolometers. MRS Advances, 2017, 2, 2281-2286.	0.9	1
31	Growth of Mos2 Thin Films with Microdome Texture as Omnidirectional Light Trap for Solar Cell Applications. , 2017, , .		1
32	Vanadium Oxide Thin Film by Aqueous Spray Deposition. MRS Advances, 2018, 3, 2777-2782.	0.9	1
33	Optical Limiter using Epsilon-Near-Zero Grating. , 2019, , .		1
34	Long-Wave Infrared Variable Emissivity Combat Identification Panel. , 2019, , .		1
35	Plasmonic infrared-laser attenuator. Infrared Physics and Technology, 2020, 111, 103561.	2.9	1
36	Fano resonance membrane reflectors from mid-infrared to far-infrared. , 2011, , .		0

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37	Planar integrated plasmonic mid-IR spectrometer. Materials Research Society Symposia Proceedings, 2013, 1510, 1.	0.1	0
38	Energy-dispersive x-ray spectrum simulation and empirical observation of 22nm node high-k metal gate structure. Microscopy and Microanalysis, 2015, 21, 1785-1786.	0.4	0
39	Ultraviolet-Assisted Release of Microelectromechanical Systems From Polyimide Sacrificial Layer. Journal of Microelectromechanical Systems, 2015, 24, 2027-2032.	2.5	0
40	The Sliding-Aperture Transform and Its Applicability to Deep-Level Transient Spectroscopy. Applied Sciences (Switzerland), 2022, 12, 5317.	2.5	0