

Arnaud Devos

List of Publications by Year in descending order

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28
papers

681
citations

623734

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642732

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all docs

28
docs citations

28
times ranked

545
citing authors

#	ARTICLE	IF	CITATIONS
1	Fano resonance between Stokes and anti-Stokes Brillouin scattering. <i>Physical Review Research</i> , 2021, 3, .	3.6	5
2	Ultrafast strain waves reconstruction from coherent acoustic phonons reflection. <i>Applied Physics Letters</i> , 2021, 119, .	3.3	1
3	Thin-film adhesion: A comparative study between colored picosecond acoustics and spontaneous buckles analysis. <i>Surface and Coatings Technology</i> , 2021, 421, 127485.	4.8	1
4	Ferroelastic relaxation at 20 GHz evidenced by large frequency range picosecond acoustics. <i>Applied Physics Letters</i> , 2018, 112, 262905.	3.3	0
5	Thin-film adhesion characterization by Colored Picosecond Acoustics. <i>Surface and Coatings Technology</i> , 2018, 352, 406-410.	4.8	5
6	Non-destructive spatial characterization of buried interfaces in multilayer stacks via two color picosecond acoustics. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	9
7	Blistering of Al ₂ O ₃ /a-SiN _x :H stacks: analysis of the submerged part of the iceberg by colored picosecond acoustic microscopy. , 2017, , .		0
8	Colored ultrafast acoustics: From fundamentals to applications. <i>Ultrasonics</i> , 2015, 56, 90-97.	3.9	25
9	Pushing the limits of acoustics at the nanoscale using femtosecond transient interferometry. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	5
10	Hypersound Damping in Vitreous Silica Measured by Ultrafast Acoustics. <i>International Journal of Thermophysics</i> , 2013, 34, 1785-1794.	2.1	1
11	Ultrafast optical technique for measuring the electrical dependence of the elasticity of piezoelectric thin film: Demonstration on AlN. <i>Review of Scientific Instruments</i> , 2013, 84, 015007.	1.3	1
12	Subterahertz hypersound attenuation in silica glass studied via picosecond acoustics. <i>Physical Review B</i> , 2011, 83, .	3.2	36
13	Ultrafast acoustics in the middle UV range: coherent phonons at higher frequencies and in smaller objects. <i>Optics Letters</i> , 2010, 35, 3510.	3.3	4
14	Generation of terahertz acoustic waves in semiconductor quantum dots using femtosecond laser pulses. <i>Physical Review B</i> , 2010, 81, .	3.2	21
15	Complete thin film mechanical characterization using picosecond ultrasonics and nanostructured transducers: experimental demonstration on SiO ₂ . <i>Applied Physics Letters</i> , 2008, 93, .	3.3	41
16	Collective acoustic modes in various two-dimensional crystals by ultrafast acoustics: Theory and experiment. <i>Physical Review B</i> , 2008, 78, .	3.2	40
17	Hypersound damping in vitreous silica measured by picosecond acoustics. <i>Physical Review B</i> , 2008, 77, .	3.2	74
18	Time-resolved vibrations of two-dimensional hypersonic phononic crystals. <i>Physical Review B</i> , 2007, 76, .	3.2	48

#	ARTICLE	IF	CITATIONS
19	Picosecond ultrasonic investigations of phonons in 2D nano-scaled lattices. Journal of Physics: Conference Series, 2007, 92, 012027.	0.4	0
20	Strong Generation of Coherent Acoustic Phonons in Semiconductor Quantum Dots. Physical Review Letters, 2007, 98, 207402.	7.8	26
21	Acoustic attenuation measurements in transparent materials in the hypersonic range by picosecond ultrasonics. Applied Physics Letters, 2006, 89, 191904.	3.3	42
22	4F-5 An Improvement of the Picosecond Ultrasonic Technique Based on a Tunable Laser: Application to Bulk Acoustic Wave Resonator Characterizations. , 2006, , .		1
23	High-laser-wavelength sensitivity of the picosecond ultrasonic response in transparent thin films. Physical Review B, 2006, 74, .	3.2	36
24	A different way of performing picosecond ultrasonic measurements in thin transparent films based on laser-wavelength effects. Applied Physics Letters, 2005, 86, 211903.	3.3	61
25	Strong oscillations detected by picosecond ultrasonics in silicon: Evidence for an electronic-structure effect. Physical Review B, 2004, 70, .	3.2	93
26	Strong picosecond ultrasonic responses of semiconductors probed close to interband transitions. Physica Status Solidi C: Current Topics in Solid State Physics, 2004, 1, 2741-2744.	0.8	0
27	Strong effect of interband transitions in the picosecond ultrasonics response of metallic thin films. Physical Review B, 2003, 68, .	3.2	38
28	Evidence of Laser-Wavelength Effect in Picosecond Ultrasonics: Possible Connection With Interband Transitions. Physical Review Letters, 2001, 86, 2669-2672.	7.8	67