Paulo Ventura Santos

List of Publications by Year
in descending order

33 papers	1,241 citations	516710 16 h-index	434195 31 g-index
33 all docs	33 docs citations	33 times ranked	1283 citing authors

#	Article	IF	Citations
1	The 2019 surface acoustic waves roadmap. Journal Physics D: Applied Physics, 2019, 52, 353001.	2.8	236
2	Modulation of photonic structures by surface acoustic waves. Reports on Progress in Physics, 2005, 68, 1639-1701.	20.1	169
3	Coherent spin transport through dynamic quantum dots. Nature Materials, 2005, 4, 585-588.	27.5	135
4	Photon anti-bunching in acoustically pumped quantum dots. Nature Photonics, 2009, 3, 645-648.	31.4	88
5	Compact Mach-Zehnder acousto-optic modulator. Applied Physics Letters, 2006, 89, 121104.	3.3	65
6	Acoustically Driven Photon Antibunching in Nanowires. Nano Letters, 2012, 12, 252-258.	9.1	54
7	Guided propagation of surface acoustic waves in AlN and GaN films grown on4Hâ€“SiC(0001)substrates. Physical Review B, 2002, 66, .	3.2	53
8	Sound-driven single-electron transfer in a circuit of coupled quantum rails. Nature Communications, 2019, 10, 4557.	12.8	50
9	Large Nonreciprocal Propagation of Surface Acoustic Waves in Epitaxial Ferromagnetic/Semiconductor Hybrid Structures. Physical Review Applied, 2020, 13, .	3.8	50
10	Acousto-electric transport in epitaxial monolayer graphene on SiC. Applied Physics Letters, 2013, 102, .	3.3	44
11	Monolithic integrated SAW filter based on AlN for high-frequency applications. Semiconductor Science and Technology, 2013, 28, 065013.	2.0	39
12	Polariton-driven phonon laser. Nature Communications, 2020, 11, 4552.	12.8	34
13	Interaction of surface acoustic waves with electronic excitations in graphene. Journal Physics D: Applied Physics, 2018, 51, 383001.	2.8	31
14	Luminescent Defects in a Few-Layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>h</mml:mi></mml:math> -BN Film Grown by Molecular BeamÂEpitaxy. Physical Review Applied, 2018, 10, .	3.8	22
15	Quantum confinement of exciton-polaritons in a structured (Al,Ga)As microcavity. Physical Review B, 2018, 97, .	3.2	17
16	Acoustically modulated optical emission of hexagonal boron nitride layers. Applied Physics Letters, 2019, 114, .	3.3	17
17	Anisotropic Spin-Acoustic Resonance in Silicon Carbide at Room Temperature. Physical Review Letters, 2020, 125, 107702.	7.8	16
18	Dynamic Local Strain in Graphene Generated by Surface Acoustic Waves. Nano Letters, 2020, 20, 402-409.	9.1	14

#	Article	IF	Citations
19	Acoustoelectric transport at gigahertz frequencies in coated epitaxial graphene. Applied Physics Letters, 2016, 108, .	3.3	13
20	Optical phonon modulation in semiconductors by surface acoustic waves. Physical Review B, 2016, 93, .	3.2	13
21	Semiconductor optical waveguide devices modulated by surface acoustic waves. Journal Physics D: Applied Physics, 2019, 52, 253001.	2.8	13
22	Ring waveguides for gigahertz acoustic waves on silicon. Applied Physics Letters, 2014, 105, .	3.3	10
23	Acoustically regulated optical emission dynamics from quantum dot-like emission centers in GaN/InGaN nanowire heterostructures. Journal Physics D: Applied Physics, 2018, 51, 104001.	2.8	10
24	Electrically Driven Microcavity Exciton-Polariton Optomechanics at 20ÂGHz. Physical Review X, 2021, 11, .	8.9	10
25	Acousto-electric transport in MgO/ZnO-covered graphene on SiC. Journal Physics D: Applied Physics, 2017, 50, 464008.	2.8	8
26	Control of single photon emitters in semiconductor nanowires by surface acoustic waves. Semiconductor Science and Technology, 2017, 32, 084002.	2.0	7
27	Optomechanical parametric oscillation of a quantum light-fluid lattice. Physical Review B, 2022, 105, .	3.2	7
28	Acoustically induced coherent spin trapping. Science Advances, 2021, 7, eabj5030.	10.3	6
29	Intense acoustic beams for photonic modulation. , 2004, , .		4
30	Gigahertz monolithic delay lines for surface acoustic waves on Silicon. IOP Conference Series: Materials Science and Engineering, 2012, 41, 012009.	0.6	3
31	Manipulation of flying and single excitons by GHz surface acoustic waves. AVS Quantum Science, 2022, 4, 035901.	4.9	2
32	Thermally Tunable Surface Acoustic Wave Cavities. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 850-854.	3.0	1
33	Acoustically Triggered Optical Memories. ACS Photonics, 2020, 7, 3071-3077.	6.6	0