

Paulo Ventura Santos

List of Publications by Year in descending order

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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	Optomechanical parametric oscillation of a quantum light-fluid lattice. <i>Physical Review B</i> , 2022, 105, .	3.2	7
2	Manipulation of flying and single excitons by GHz surface acoustic waves. <i>AVS Quantum Science</i> , 2022, 4, 035901.	4.9	2
3	Electrically Driven Microcavity Exciton-Polariton Optomechanics at 20ÂGHz. <i>Physical Review X</i> , 2021, 11, .	8.9	10
4	Acoustically induced coherent spin trapping. <i>Science Advances</i> , 2021, 7, eabj5030.	10.3	6
5	Dynamic Local Strain in Graphene Generated by Surface Acoustic Waves. <i>Nano Letters</i> , 2020, 20, 402-409.	9.1	14
6	Thermally Tunable Surface Acoustic Wave Cavities. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2020, 67, 850-854.	3.0	1
7	Acoustically Triggered Optical Memories. <i>ACS Photonics</i> , 2020, 7, 3071-3077.	6.6	0
8	Anisotropic Spin-Acoustic Resonance in Silicon Carbide at Room Temperature. <i>Physical Review Letters</i> , 2020, 125, 107702.	7.8	16
9	Polariton-driven phonon laser. <i>Nature Communications</i> , 2020, 11, 4552.	12.8	34
10	Large Nonreciprocal Propagation of Surface Acoustic Waves in Epitaxial Ferromagnetic/Semiconductor Hybrid Structures. <i>Physical Review Applied</i> , 2020, 13, .	3.8	50
11	The 2019 surface acoustic waves roadmap. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 353001.	2.8	236
12	Sound-driven single-electron transfer in a circuit of coupled quantum rails. <i>Nature Communications</i> , 2019, 10, 4557.	12.8	50
13	Semiconductor optical waveguide devices modulated by surface acoustic waves. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 253001.	2.8	13
14	Acoustically modulated optical emission of hexagonal boron nitride layers. <i>Applied Physics Letters</i> , 2019, 114, .	3.3	17
15	Acoustically regulated optical emission dynamics from quantum dot-like emission centers in GaN/InGaN nanowire heterostructures. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 104001.	2.8	10
16	Luminescent Defects in a Few-Layer $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"} \rangle \langle \text{mml:mi} \rangle \text{h} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -BN Film Grown by Molecular BeamÆpitaxy. <i>Physical Review Applied</i> , 2018, 10, .	3.8	22
17	Quantum confinement of exciton-polaritons in a structured (Al,Ga)As microcavity. <i>Physical Review B</i> , 2018, 97, .	3.2	17
18	Interaction of surface acoustic waves with electronic excitations in graphene. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 383001.	2.8	31

#	ARTICLE	IF	CITATIONS
19	Control of single photon emitters in semiconductor nanowires by surface acoustic waves. Semiconductor Science and Technology, 2017, 32, 084002.	2.0	7
20	Acousto-electric transport in MgO/ZnO-covered graphene on SiC. Journal Physics D: Applied Physics, 2017, 50, 464008.	2.8	8
21	Acoustoelectric transport at gigahertz frequencies in coated epitaxial graphene. Applied Physics Letters, 2016, 108, .	3.3	13
22	Optical phonon modulation in semiconductors by surface acoustic waves. Physical Review B, 2016, 93, .	3.2	13
23	Ring waveguides for gigahertz acoustic waves on silicon. Applied Physics Letters, 2014, 105, .	3.3	10
24	Acousto-electric transport in epitaxial monolayer graphene on SiC. Applied Physics Letters, 2013, 102, .	3.3	44
25	Monolithic integrated SAW filter based on AlN for high-frequency applications. Semiconductor Science and Technology, 2013, 28, 065013.	2.0	39
26	Gigahertz monolithic delay lines for surface acoustic waves on Silicon. IOP Conference Series: Materials Science and Engineering, 2012, 41, 012009.	0.6	3
27	Acoustically Driven Photon Antibunching in Nanowires. Nano Letters, 2012, 12, 252-258.	9.1	54
28	Photon anti-bunching in acoustically pumped quantum dots. Nature Photonics, 2009, 3, 645-648.	31.4	88
29	Compact Mach-Zehnder acousto-optic modulator. Applied Physics Letters, 2006, 89, 121104.	3.3	65
30	Coherent spin transport through dynamic quantum dots. Nature Materials, 2005, 4, 585-588.	27.5	135
31	Modulation of photonic structures by surface acoustic waves. Reports on Progress in Physics, 2005, 68, 1639-1701.	20.1	169
32	Intense acoustic beams for photonic modulation. , 2004, , .		4
33	Guided propagation of surface acoustic waves in AlN and GaN films grown on 4H-SiC(0001) substrates. Physical Review B, 2002, 66, .	3.2	53