

Shrishail Kubakaddi

List of Publications by Year in descending order

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papers

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citations

623734
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78
all docs

78
docs citations

78
times ranked

602
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction of massless Dirac electrons with acoustic phonons in graphene at low temperatures. Physical Review B, 2009, 79, .	3.2	125
2	Hot-electron cooling by acoustic and optical phonons in monolayers of MoS_2 and other transition-metal dichalcogenides. Physical Review B, 2014, 90, .	3.2	76
3	Magneto-optical transport properties of monolayer transition metal dichalcogenides. Physical Review B, 2020, 101, .	3.2	69
4	Localized phonon-assisted cyclotron resonance in GaAs/AlAs quantum wells. Physical Review B, 1994, 49, 16459-16466.	3.2	49
5	Cyclotron-phonon resonance in quasi-two-dimensional semiconducting structures. Journal of Applied Physics, 1991, 70, 2216-2219.	2.5	47
6	Thermopower enhancement in semiconducting quantum well wires for acoustic phonon scattering. Journal of Applied Physics, 1985, 58, 3643-3645.	2.5	30
7	Phonon-drag thermopower of a two-dimensional electron gas in a quantizing magnetic field. Physical Review B, 1989, 40, 1377-1380.	3.2	30
8	Enhancement of phonon-drag thermopower in bilayer graphene. Physical Review B, 2010, 82, .	3.2	30
9	Free carrier absorption in semiconducting quantum wells for confined LO phonon scattering. Journal of Applied Physics, 1992, 72, 4966-4968.	2.5	28
10	Free-carrier absorption in semiconducting quantum well wires. Journal of Physics C: Solid State Physics, 1985, 18, 6647-6652.	1.5	25
11	Magneto-optical absorption in silicene and germanene induced by electric and Zeeman fields. Physical Review B, 2020, 101, .	3.2	25
12	Energy Loss Rate of Hot Electrons Due to Confined and Interface Optical Phonons in Semiconductor Quantum Wells in Quantizing Magnetic Field. Physica Status Solidi (B): Basic Research, 1998, 209, 37-47.	1.5	16
13	Electron-phonon interaction in a quantum wire in the Bloch-Gruneisen regime. Physical Review B, 2007, 75, .	3.2	16
14	Electron cooling in three-dimensional Dirac fermion systems at low temperature: Effect of screening. Physica Status Solidi - Rapid Research Letters, 2016, 10, 248-252.	2.4	15
15	Effect of chiral property on hot phonon distribution and energy loss rate due to surface polar phonons in a bilayer graphene. Journal of Applied Physics, 2013, 113, 063705.	2.5	14
16	Thermopower in Quasi-Two-Dimensional Semiconductor Quantum Well Structures. Physica Status Solidi (B): Basic Research, 1986, 137, 683-689.	1.5	13
17	Free-carrier absorption in quasi-two-dimensional semiconducting structures for nonpolar optical phonon scattering. Journal of Applied Physics, 1985, 58, 3640-3642.	2.5	12
18	Quantitative Interpretation of Thermopower Data for Composite Fermions in a Half-Filled Landau Level. Physical Review Letters, 1999, 83, 4820-4823.	7.8	12

#	ARTICLE	IF	CITATIONS
19	Hot electron cooling in Dirac semimetal Cd ₃ As ₂ due to polar optical phonons. Journal of Physics Condensed Matter, 2018, 30, 265303.	1.8	12
20	Hot-electron transport in semiconducting quantum well wires. Journal of Physics C: Solid State Physics, 1986, 19, 5453-5457.	1.5	11
21	Free Carrier Absorption in Quantum Well Structures Due to Confined and Interface Optical Phonons. Physica Status Solidi (B): Basic Research, 1994, 182, 119-131.	1.5	11
22	Electronic thermal conductivity in suspended and supported bilayer graphene. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 47, 188-192.	2.7	11
23	Phonon-drag thermopower in a monolayer MoS ₂ . Journal of Physics Condensed Matter, 2014, 26, 485013.	1.8	11
24	Effect of acoustic-phonon confinement on the phonon-drag thermopower of a two-dimensional electron gas in a semiconductor thin film. Physical Review B, 2004, 69, .	3.2	10
25	Acoustic phonon assisted free-carrier optical absorption in an n-type monolayer MoS ₂ and other transition-metal dichalcogenides. Journal of Applied Physics, 2015, 118, 044308.	2.5	10
26	A calculation of the phonon-drag thermopower of a 1D electron gas. Journal of Physics Condensed Matter, 1989, 1, 3939-3946.	1.8	9
27	Cerenkov emission of acoustic phonons electrically generated from three-dimensional Dirac semimetals. Journal of Applied Physics, 2016, 119, 195701.	2.5	9
28	Thermoelectric transport properties in 3D Dirac semimetal Cd ₃ As ₂ . Journal of Physics Condensed Matter, 2020, 32, 225704.	1.8	9
29	Electron-confined LO phonon scattering rates in GaAs/AlAs quantum wells in the presence of a quantizing magnetic field. Semiconductor Science and Technology, 1993, 8, 1571-1574.	2.0	8
30	Electron-interface LO phonon scattering rates in quantum wells in a quantizing magnetic field. Journal of Applied Physics, 1993, 74, 4561-4564.	2.5	7
31	Phonon-drag thermopower in an armchair graphene nanoribbon. Journal of Physics Condensed Matter, 2011, 23, 275303.	1.8	7
32	Oscillations of the electron energy loss rate in two-dimensional transition-metal dichalcogenides in the presence of a quantizing magnetic field. Physical Review B, 2021, 103, .	3.2	7
33	Quantum Theory of Thermopower in Quasi-Two-Dimensional Semiconductor Quantum Well Structures. Physica Status Solidi (B): Basic Research, 1987, 139, 267-271.	1.5	6
34	Free-carrier absorption in semiconducting quantum well wires for nonpolar optical-phonon scattering. Journal of Applied Physics, 1988, 63, 1799-1801.	2.5	6
35	Phonon-drag thermopower in semiconducting quantum well structures in a quantizing magnetic field. Journal of Applied Physics, 1990, 68, 5919-5921.	2.5	6
36	Hot-electron energy relaxation in GaAs/GaAlAs two-dimensional structures: importance of two-phonon processes. Semiconductor Science and Technology, 2002, 17, 557-564.	2.0	6

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37	Quantum magnetotransport properties of silicene: Influence of the acoustic phonon correction. Physical Review B, 2021, 104, .	3.2	6
38	Phonon-drag thermopower in 3D Dirac semimetals. Journal of Physics Condensed Matter, 2015, 27, 455801.	1.8	5
39	Phonon-limited mobility of Dirac fermions in three-dimensional Dirac semimetal Cd ₃ As ₂ . Journal of Applied Physics, 2019, 126, 135703.	2.5	5
40	Giant thermopower and power factor in magic angle twisted bilayer graphene at low temperature. Journal of Physics Condensed Matter, 2021, 33, 245704.	1.8	5
41	The Electron-Phonon Two Short-Wavelength Phonon Scattering in Non-Polar Semiconductors. Physica Status Solidi (B): Basic Research, 1977, 80, 603-609.	1.5	4
42	Two-photon absorption in GaAs/GaAlAs superlattices. Semiconductor Science and Technology, 1993, 8, 2072-2076.	2.0	4
43	+Cerenkov emission of terahertz acoustic phonons generated electrically from monolayers of transition metal dichalcogenides. Journal of Applied Physics, 2017, 121, .	2.5	4
44	The role of vector potential coupling in the hot electron cooling power in bilayer graphene at low temperature. Physica E: Low-Dimensional Systems and Nanostructures, 2018, 95, 144-148.	2.7	4
45	Large power dissipation of hot Dirac fermions in twisted bilayer graphene. Journal of Physics Condensed Matter, 2021, 33, 115704.	1.8	4
46	Power loss of hot Dirac fermions in silicene and its near equivalence with graphene. Semiconductor Science and Technology, 2021, 36, 025005.	2.0	4
47	Quantum Theory of Thermopower in Quantum Well Wires. Physica Status Solidi (B): Basic Research, 1987, 144, 739-744.	1.5	3
48	Influence of Umklapp processes on the sign of phonon-drag thermopower in semiconductor superlattices. Journal of Physics Condensed Matter, 1991, 3, 5445-5449.	1.8	3
49	Parallel and perpendicular phonon-drag thermopower in semiconductor superlattices. Semiconductor Science and Technology, 1992, 7, 1344-1349.	2.0	3
50	Effect of the Pekar mechanism on the phonon-drag thermopower in p-type Si _{1-x} Ge _x heterostructures. Physical Review B, 2005, 72, .	3.2	3
51	Two-photon magnetoabsorption in GaAs/GaAlAs quantum wells. Semiconductor Science and Technology, 1992, 7, 1422-1424.	2.0	2
52	Thermal Conductivity of GaAs Substrates in GaAs/GaAlAs Heterostructures. Physica Status Solidi A, 1999, 173, 337-347.	1.7	2
53	Phonon drag thermopower in an AlGa _N /Ga _N heterostructure. Physica Status Solidi (B): Basic Research, 2003, 238, 40-44.	1.5	2
54	Power loss by a two-dimensional hole gas in a Si/Si _{0.8} Ge _{0.2} heterostructure over a wide temperature range. Journal of Applied Physics, 2010, 107, 123716.	2.5	2

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55	Phonon-drag magnetoquantum oscillations in graphene. Journal of Physics Condensed Matter, 2017, 29, 305301.	1.8	2
56	Magneto-optical absorption properties of topological insulator thin films. Journal of Physics Condensed Matter, 2022, 34, 305702.	1.8	2
57	Contribution of Electron-Phonon Scattering to Free Carrier Absorption in n-GaSb . Physica Status Solidi (B): Basic Research, 1985, 128, K117.	1.5	1
58	Electronic thermal conductivity in quasi-two-dimensional semiconductor quantum well structures. Physica Status Solidi (B): Basic Research, 1986, 135, K163.	1.5	1
59	Warm electrons in quantum well wires. Semiconductor Science and Technology, 1987, 2, 360-362.	2.0	1
60	On the Electrical Conductivity and Thermopower in Quasi-Two-Dimensional Semiconductor Quantum Well Structures in Quantizing Magnetic Field. Physica Status Solidi (B): Basic Research, 1987, 142, K131.	1.5	1
61	Electron-Phonon Scattering in Semiconductor Superlattices in a Quantizing Magnetic Field. Japanese Journal of Applied Physics, 1988, 27, 730-733.	1.5	1
62	Phonon-drag magneto-thermopower in semiconductor superlattices. Semiconductor Science and Technology, 1992, 7, 931-934.	2.0	1
63	Diffusion Thermopower in (In, Ga) As Quantum Wells. Physica Status Solidi (B): Basic Research, 1992, 170, K37.	1.5	1
64	Amplification of terahertz frequency acoustic phonons by drifting electrons in three-dimensional Dirac semimetals. Journal of Applied Physics, 2016, 120, 125705.	2.5	1
65	Effects of a piezoelectric substrate on phonon-drag thermopower in monolayer graphene. Journal of Physics Condensed Matter, 2017, 29, 235303.	1.8	1
66	Energy Loss Rate of Hot Electrons Due to Confined and Interface Optical Phonons in Semiconductor Quantum Wells in Quantizing Magnetic Field. , 1998, 209, 37.		1
67	Energy Loss Rate of Hot Electrons Due to Confined and Interface Optical Phonons in Semiconductor Quantum Wells in Quantizing Magnetic Field. Physica Status Solidi (B): Basic Research, 1998, 209, 37-47.	1.5	1
68	Drift velocity saturation and large current density in intrinsic three-dimensional Dirac semimetal cadmium arsenide. Journal of Physics Condensed Matter, 2020, 32, 265701.	1.8	1
69	Electronic Thermal Conductivity in Quasi-One-Dimensional Semiconductor Quantum Well Structures. Physica Status Solidi (B): Basic Research, 1987, 142, K25.	1.5	0
70	On the Interpretation of Thermopower Measurements in $\text{GaAs}_{1-x}\text{Al}_x\text{Ga}_{1-x}\text{As}$ Heterostructures. Physica Status Solidi (B): Basic Research, 1987, 143, K25.	1.5	0
71	Phonon-assisted two-photon magnetoabsorption in an indirect band gap semiconductor quantum well. Physica Status Solidi (B): Basic Research, 1996, 197, 51-60.	1.5	0
72	Diffusion Thermopower In $\text{Ga}_{1-x}\text{Al}_x\text{N}$ Heterostructures. , 2010, , .		0

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73	Effect of band anisotropy on phonon-drag thermopower in AlAs quantum wells: Strong enhancement of phonon drag. Physical Review B, 2013, 87, .	3.2	0
74	Phonon-drag thermopower in anisotropic AlAs quantum wells. , 2013, , .		0
75	Energy and momentum loss rates of hot electrons in a supported bilayer graphene. , 2013, , .		0
76	Acoustic phonon-limited diffusion thermopower in monolayer MoS ₂ . AIP Conference Proceedings, 2015, , .	0.4	0
77	Low temperature phonon-drag thermopower in a monolayer MoS ₂ . AIP Conference Proceedings, 2015, , .	0.4	0
78	Phonon-drag thermopower and thermoelectric performance of MoS ₂ monolayer in quantizing magnetic field. Journal of Physics Condensed Matter, 0, , .	1.8	0