

John C Duda

List of Publications by Year in descending order

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40
papers

2,545
citations

201674

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315739

38
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41
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41
docs citations

41
times ranked

2523
citing authors

#	ARTICLE	IF	CITATIONS
1	Crossover from incoherent to coherent phonon scattering in epitaxial oxide superlattices. <i>Nature Materials</i> , 2014, 13, 168-172.	27.5	399
2	Manipulating Thermal Conductance at Metal-Graphene Contacts via Chemical Functionalization. <i>Nano Letters</i> , 2012, 12, 590-595.	9.1	240
3	Enhancing and tuning phonon transport at vibrationally mismatched solid-solid interfaces. <i>Physical Review B</i> , 2012, 85, .	3.2	157
4	Experimental Investigation of Size Effects on the Thermal Conductivity of Silicon-Germanium Alloy Thin Films. <i>Physical Review Letters</i> , 2012, 109, 195901.	7.8	138
5	Anharmonic Phonon Interactions at Interfaces and Contributions to Thermal Boundary Conductance. <i>Journal of Heat Transfer</i> , 2011, 133, .	2.1	109
6	Controlling thermal conductance through quantum dot roughening at interfaces. <i>Physical Review B</i> , 2011, 84, .	3.2	98
7	Extension of the diffuse mismatch model for thermal boundary conductance between isotropic and anisotropic materials. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	81
8	Exceptionally Low Thermal Conductivities of Films of the Fullerene Derivative PCBM. <i>Physical Review Letters</i> , 2013, 110, 015902.	7.8	79
9	Systematically controlling Kapitza conductance via chemical etching. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	78
10	Role of dispersion on phononic thermal boundary conductance. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	76
11	Thermal transport in organic semiconducting polymers. <i>Applied Physics Letters</i> , 2013, 102, 251912.	3.3	74
12	Thermal boundary conductance accumulation and interfacial phonon transmission: Measurements and theory. <i>Physical Review B</i> , 2015, 91, .	3.2	74
13	Effect of dislocation density on thermal boundary conductance across GaSb/GaAs interfaces. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	73
14	Relationship of thermal boundary conductance to structure from an analytical model plus molecular dynamics simulations. <i>Physical Review B</i> , 2013, 87, .	3.2	71
15	Modifying Surface Energy of Graphene via Plasma-Based Chemical Functionalization to Tune Thermal and Electrical Transport at Metal Interfaces. <i>Nano Letters</i> , 2015, 15, 4876-4882.	9.1	68
16	Implications of cross-species interactions on the temperature dependence of Kapitza conductance. <i>Physical Review B</i> , 2011, 84, .	3.2	62
17	Influence of anisotropy on thermal boundary conductance at solid interfaces. <i>Physical Review B</i> , 2011, 84, .	3.2	53
18	Ion irradiation of the native oxide/silicon surface increases the thermal boundary conductance across aluminum/silicon interfaces. <i>Physical Review B</i> , 2014, 90, .	3.2	53

#	ARTICLE	IF	CITATIONS
19	On the Assumption of Detailed Balance in Prediction of Diffusive Transmission Probability During Interfacial Transport. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2010, 14, 21-33.	2.6	50
20	Thermal conductivity of nano-grained SrTiO ₃ thin films. <i>Applied Physics Letters</i> , 2012, 101, .	3.3	50
21	Kapitza resistance and the thermal conductivity of amorphous superlattices. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	50
22	Inelastic phonon interactions at solid-graphite interfaces. <i>Superlattices and Microstructures</i> , 2010, 47, 550-555.	3.1	46
23	Effect of interface adhesion and impurity mass on phonon transport at atomic junctions. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	36
24	Contribution of optical phonons to thermal boundary conductance. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	34
25	Ultrafast and steady-state laser heating effects on electron relaxation and phonon coupling mechanisms in thin gold films. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	34
26	Protein Thermal Conductivity Measured in the Solid State Reveals Anharmonic Interactions of Vibrations in a Fractal Structure. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1077-1082.	4.6	34
27	On the Linear Temperature Dependence of Phonon Thermal Boundary Conductance in the Classical Limit. <i>Journal of Heat Transfer</i> , 2011, 133, .	2.1	28
28	Prediction and Measurement of Thermal Transport Across Interfaces Between Isotropic Solids and Graphitic Materials. <i>Journal of Heat Transfer</i> , 2012, 134, .	2.1	28
29	Effects of Intra- and Interband Transitions on Electron-Phonon Coupling and Electron Heat Capacity After Short-Pulsed Laser Heating. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2008, 12, 320-333.	2.6	24
30	Thermal Conductance across Phosphonic Acid Molecules and Interfaces: Ballistic versus Diffusive Vibrational Transport in Molecular Monolayers. <i>Journal of Physical Chemistry C</i> , 2015, 119, 20931-20939.	3.1	24
31	Assessment and prediction of thermal transport at solid-self-assembled monolayer junctions. <i>Journal of Chemical Physics</i> , 2011, 134, 094704.	3.0	23
32	Thermal flux limited electron Kapitza conductance in copper-niobium multilayers. <i>Applied Physics Letters</i> , 2015, 106, .	3.3	21
33	Reducing thermal conductivity of binary alloys below the alloy limit via chemical ordering. <i>Journal of Physics Condensed Matter</i> , 2011, 23, 205401.	1.8	20
34	Bidirectionally tuning Kapitza conductance through the inclusion of substitutional impurities. <i>Journal of Applied Physics</i> , 2012, 112, 073519.	2.5	19
35	Effects of subconduction band excitations on thermal conductance at metal-metal interfaces. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	14
36	Strategies for tuning phonon transport in multilayered structures using a mismatch-based particle model. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	14

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37	Controlling Thermal Conductivity of Alloys via Atomic Ordering. Journal of Heat Transfer, 2012, 134, .	2.1	9
38	Ultrafast thermoelectric properties of gold under conditions of strong electron-phonon nonequilibrium. Journal of Applied Physics, 2010, 108, .	2.5	4
39	Contributions of Anharmonic Phonon Interactions to Thermal Boundary Conductance. , 2011, , .		0
40	Anharmonic Phonon Dispersion Relations, Group Velocities, and Branch-Dependent Specific Heat Capacities Measured Directly From Molecular Dynamics Simulations at Finite Temperatures. , 2012, , .		0