

# Robert A Guyer

## List of Publications by Year in descending order

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163  
papers

8,120  
citations

46918

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176  
docs citations

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times ranked

3425  
citing authors

#	ARTICLE	IF	CITATIONS
1	A 3D Full Stress Tensor Model for Oklahoma. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021113.	1.4	6
2	Probing the Damage Zone at Parkfield. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093518.	1.5	6
3	Attention Network Forecasts Time-to-Failure in Laboratory Shear Experiments. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022195.	1.4	9
4	Moisture-induced crossover in the thermodynamic and mechanical response of hydrophilic biopolymer. <i>Cellulose</i> , 2020, 27, 89-99.	2.4	13
5	Plate motion in sheared granular fault system. <i>Earth and Planetary Science Letters</i> , 2020, 548, 116481.	1.8	6
6	A Poromechanical Model for Sorption Hysteresis in Nanoporous Polymers. <i>Journal of Physical Chemistry B</i> , 2020, 124, 8690-8703.	1.2	8
7	The Spatiotemporal Evolution of Granular Microslip Precursors to Laboratory Earthquakes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088404.	1.5	20
8	Disentangling Heat and Moisture Effects on Biopolymer Mechanics. <i>Macromolecules</i> , 2020, 53, 1527-1535.	2.2	8
9	From Stress Chains to Acoustic Emission. <i>Physical Review Letters</i> , 2019, 123, 048003.	2.9	32
10	Machine Learning Reveals the State of Intermittent Frictional Dynamics in a Sheared Granular Fault. <i>Geophysical Research Letters</i> , 2019, 46, 7395-7403.	1.5	27
11	Simulation of crack induced nonlinear elasticity using the combined finite-discrete element method. <i>Ultrasonics</i> , 2019, 98, 51-61.	2.1	18
12	Molecular Simulation of Sorption-Induced Deformation in Atomistic Nanoporous Materials. <i>Langmuir</i> , 2019, 35, 7751-7758.	1.6	14
13	Cohesion-Induced Stabilization in Stick-Slip Dynamics of Weakly Wet, Sheared Granular Fault Gouge. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 2115-2126.	1.4	21
14	Estimating Fault Friction From Seismic Signals in the Laboratory. <i>Geophysical Research Letters</i> , 2018, 45, 1321-1329.	1.5	57
15	Role of hydrogen bonding in hysteresis observed in sorption-induced swelling of soft nanoporous polymers. <i>Nature Communications</i> , 2018, 9, 3507.	5.8	101
16	Modeling of Stick-Slip Behavior in Sheared Granular Fault Gouge Using the Combined Finite-Discrete Element Method. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 5774-5792.	1.4	56
17	Simulating stick-slip failure in a sheared granular layer using a physics-based constitutive model. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 295-307.	1.4	16
18	On the role of fluids in stick-slip dynamics of saturated granular fault gouge using a coupled computational fluid dynamics-discrete element approach. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 3689-3700.	1.4	33

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19	On the micromechanics of slip events in sheared, fluid-saturated fault gouge. <i>Geophysical Research Letters</i> , 2017, 44, 6101-6108.	1.5	41
20	Nonlinear softening of unconsolidated granular earth materials. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 6998-7008.	1.4	5
21	Do Fluids Modify the Stick-Slip Behavior of Sheared Granular Media?. , 2017, , .		4
22	Dynamic induced softening in frictional granular materials investigated by discrete-element-method simulation. <i>Physical Review E</i> , 2017, 96, 062901.	0.8	20
23	Slow dynamics of consolidated granular systems: Multi-scale relaxation. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	39
24	Linear and nonlinear elastic properties of dense granular packings: a DEM exploration. <i>EPJ Web of Conferences</i> , 2017, 140, 15033.	0.1	0
25	Quantification of Nanopore Networks: Application to Amorphous Polymers. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28144-28151.	1.5	11
26	Decoupling Nonclassical Nonlinear Behavior of Elastic Wave Types. <i>Physical Review Letters</i> , 2016, 116, 115501.	2.9	46
27	Dynamically triggered slip leading to sustained fault gouge weakening under laboratory shear conditions. <i>Geophysical Research Letters</i> , 2016, 43, 1559-1565.	1.5	20
28	Modeling the Maximum Spreading of Liquid Droplets Impacting Wetting and Nonwetting Surfaces. <i>Langmuir</i> , 2016, 32, 1299-1308.	1.6	134
29	Poroelastic model for adsorption-induced deformation of biopolymers obtained from molecular simulations. <i>Physical Review E</i> , 2015, 92, 022605.	0.8	33
30	Acoustically induced slip in sheared granular layers: Application to dynamic earthquake triggering. <i>Geophysical Research Letters</i> , 2015, 42, 9750-9757.	1.5	28
31	A set of measures for the systematic classification of the nonlinear elastic behavior of disparate rocks. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 1587-1604.	1.4	70
32	Spatial-temporal variation of low-frequency earthquake bursts near Parkfield, California. <i>Geophysical Journal International</i> , 2015, 202, 914-919.	1.0	13
33	Synchronous low frequency earthquakes and implications for deep San Andreas Fault slip. <i>Earth and Planetary Science Letters</i> , 2015, 424, 132-139.	1.8	11
34	Impact of Moisture Adsorption on Structure and Physical Properties of Amorphous Biopolymers. <i>Macromolecules</i> , 2015, 48, 2793-2800.	2.2	72
35	Water Diffusion in Amorphous Hydrophilic Systems: A Stop and Go Process. <i>Langmuir</i> , 2015, 31, 10843-10849.	1.6	35
36	Water Adsorption in Wood Microfibril-Hemicellulose System: Role of the Crystalline-Amorphous Interface. <i>Biomacromolecules</i> , 2015, 16, 2972-2978.	2.6	107

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37	Three-dimensional discrete element modeling of triggered slip in sheared granular media. <i>Physical Review E</i> , 2014, 89, 042204.	0.8	40
38	Molecular Mechanism of Moisture-Induced Transition in Amorphous Cellulose. <i>ACS Macro Letters</i> , 2014, 3, 1037-1040.	2.3	71
39	Effect of boundary vibration on the frictional behavior of a dense sheared granular layer. <i>Acta Mechanica</i> , 2014, 225, 2227-2237.	1.1	19
40	Microslips as precursors of large slip events in the stick-slip dynamics of sheared granular layers: A discrete element model analysis. <i>Geophysical Research Letters</i> , 2013, 40, 4194-4198.	1.5	50
41	Swelling of cellular solids: From conventional to re-entrant honeycombs. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	6
42	Modeling dynamic triggering of tectonic tremor using a brittle-ductile friction model. <i>Geophysical Research Letters</i> , 2013, 40, 5075-5079.	1.5	7
43	Acoustic emission and microslip precursors to stick-slip failure in sheared granular material. <i>Geophysical Research Letters</i> , 2013, 40, 5627-5631.	1.5	105
44	Hygromorphic behaviour of cellular material: hysteretic swelling and shrinkage of wood probed by phase contrast X-ray tomography. <i>Philosophical Magazine</i> , 2012, 92, 3680-3698.	0.7	43
45	Are megaquakes clustered?. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	26
46	Brittle and ductile friction and the physics of tectonic tremor. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	30
47	Vibration-induced slip in sheared granular layers and the micromechanics of dynamic earthquake triggering. <i>Europhysics Letters</i> , 2011, 96, 14001.	0.7	30
48	Probing the interior of a solid volume with time reversal and nonlinear elastic wave spectroscopy. <i>Journal of the Acoustical Society of America</i> , 2011, 130, EL258-EL263.	0.5	14
49	Time-reversal methods in geophysics. <i>Physics Today</i> , 2010, 63, 31-35.	0.3	71
50	Hysteretic Elastic Systems. <i>Proceedings of Meetings on Acoustics</i> , 2010, , .	0.3	0
51	Using time-reversal to locate non-volcanic tremor and to fulfill the monitoring objectives of the nuclear-test ban treaty. <i>Proceedings of Meetings on Acoustics</i> , 2010, , .	0.3	0
52	Time reversal of continuous-wave, steady-state signals in elastic media. <i>Applied Physics Letters</i> , 2009, 94, 111908.	1.5	17
53	Energy current imaging method for time reversal in elastic media. <i>Applied Physics Letters</i> , 2009, 95, 021907.	1.5	12
54	Three component time reversal: Focusing vector components using a scalar source. <i>Journal of Applied Physics</i> , 2009, 106, 113504.	1.1	22

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55	Tremor source location using time reversal: Selecting the appropriate imaging field. Geophysical Research Letters, 2009, 36, .	1.5	41
56	Interaction Dynamics of Elastic Waves with a Complex Nonlinear Scatterer through the Use of a Time Reversal Mirror. Physical Review Letters, 2007, 98, 104301.	2.9	115
57	Imaging the Sublimation Dynamics of Colloidal Crystallites. Science, 2006, 314, 795-798.	6.0	91
58	Nonlinear resonant ultrasound spectroscopy (NRUS) applied to damage assessment in bone. Journal of the Acoustical Society of America, 2005, 118, 3946-3952.	0.5	117
59	Linear and nonlinear modulus surfaces in stress space, from stress-strain measurements on Berea sandstone. Nonlinear Processes in Geophysics, 2003, 10, 589-597.	0.6	15
60	Determination of elastic moduli of rock samples using resonant ultrasound spectroscopy. Journal of the Acoustical Society of America, 2002, 111, 1667-1674.	0.5	48
61	Universal Slow Dynamics in Granular Solids. Physical Review Letters, 2000, 85, 1020-1023.	2.9	206
62	Lattice Boltzmann description of magnetization in porous media. Physical Review B, 2000, 62, 3674-3688.	1.1	4
63	Hysteresis and the Dynamic Elasticity of Consolidated Granular Materials. Physical Review Letters, 1999, 82, 3280-3283.	2.9	114
64	Nonlinear Mesoscopic Elasticity: Evidence for a New Class of Materials. Physics Today, 1999, 52, 30-36.	0.3	496
65	Superfluid Avalanches. Journal of Low Temperature Physics, 1998, 111, 841-861.	0.6	3
66	Slow elastic dynamics in a resonant bar of rock. Geophysical Research Letters, 1998, 25, 1585-1588.	1.5	72
67	On the quasi-analytic treatment of hysteretic nonlinear response in elastic wave propagation. Journal of the Acoustical Society of America, 1997, 101, 1885-1898.	0.5	148
68	Quantitative implementation of Preisach-Mayergoyz space to find static and dynamic elastic moduli in rock. Journal of Geophysical Research, 1997, 102, 5281-5293.	3.3	82
69	A new theoretical paradigm to describe hysteresis, discrete memory and nonlinear elastic wave propagation in rock. Nonlinear Processes in Geophysics, 1996, 3, 89-101.	0.6	76
70	Earthquake-like behaviour of soft $\hat{\Gamma}^3$ -ray repeaters. Nature, 1996, 382, 518-520.	18.7	121
71	Capillary condensation, invasion percolation, hysteresis, and discrete memory. Physical Review B, 1996, 54, 18-21.	1.1	41
72	Distribution of large currents in finite-size random resistor networks. Physical Review B, 1995, 51, 6711-6714.	1.1	5

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73	Hysteresis, Discrete Memory, and Nonlinear Wave Propagation in Rock: A New Paradigm. <i>Physical Review Letters</i> , 1995, 74, 3491-3494.	2.9	287
74	Phonon gas: A lattice Boltzmann description. <i>Physical Review E</i> , 1994, 50, 4596-4608.	0.8	21
75	Magnetization isotherms and pore-space geometry. <i>Physical Review B</i> , 1993, 48, 3683-3688.	1.1	43
76	Capillary condensation refrigerator. <i>Physical Review B</i> , 1993, 47, 11591-11594.	1.1	3
77	Magnetization evolution in connected pore systems. III. Fluid flow. <i>Physical Review B</i> , 1993, 48, 6007-6013.	1.1	3
78	Observations of nonlinear elastic wave behavior in sandstone. <i>Journal of the Acoustical Society of America</i> , 1993, 94, 3387-3391.	0.5	117
79	Magnetization evolution in connected pore systems. II. Pulsed-field-gradient NMR and pore-space geometry. <i>Physical Review B</i> , 1993, 48, 5997-6006.	1.1	13
80	Magnetization evolution in connected pore systems. <i>Physical Review B</i> , 1991, 44, 7344-7355.	1.1	54
81	Fluid configurations in partially saturated porous media. <i>Physical Review B</i> , 1991, 43, 808-815.	1.1	8
82	He3 films and the Ruderman-Kittel-Kasuya-Yosida interaction. <i>Physical Review Letters</i> , 1990, 64, 1919-1923.	2.9	21
83	Comment on "Exact solution for diffusion in a random potential". <i>Physical Review Letters</i> , 1990, 64, 494-494.	2.9	9
84	Density-functional theory of thin films of self-bound fermions. <i>Physical Review B</i> , 1989, 40, 7417-7420.	1.1	22
85	Large currents in random resistor networks. <i>Physical Review B</i> , 1989, 39, 9236-9239.	1.1	15
86	Superfluid films on a cylindrical surface. <i>Journal of Low Temperature Physics</i> , 1989, 74, 231-261.	0.6	36
87	Superfluid Films in Porous Media. <i>Physical Review Letters</i> , 1988, 60, 2054-2057.	2.9	64
88	Third Sound on Substrates Patterned with Periodic and Random Disorder: Evidence for Classical Wave Localization. <i>Physical Review Letters</i> , 1988, 61, 1286-1289.	2.9	31
89	Porosity fluctuations, tortuosity fluctuations, and other types of fluctuations: Long-time tails and localization in porous media. <i>Physical Review B</i> , 1988, 37, 5713-5722.	1.1	6
90	Largest current in a random resistor network. <i>Physical Review B</i> , 1987, 36, 2142-2146.	1.1	29

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91	The structure and modes of a compressible superfluid film. Journal of Low Temperature Physics, 1986, 64, 409-428.	0.6	3
92	Conductivity fluctuations and the amplitude of the long-time tail. Physical Review B, 1986, 34, 7816-7822.	1.1	6
93	Hydrodynamic modes of superfluid helium adsorbed on Nuclepore. Physical Review B, 1986, 33, 4664-4668.	1.1	25
94	Third sound and capillary condensation on a fractal surface. Physical Review B, 1986, 34, 6522-6524.	1.1	11
95	Self-Avoiding Walks on a Crumpled Fractal. Physical Review Letters, 1986, 57, 3121-3121.	2.9	1
96	Conductivity in percolation networks with broad distributions of resistances. Physical Review B, 1986, 33, 4818-4825.	1.1	54
97	Damping in coupled, layered helium films. Physical Review B, 1985, 31, 2713-2718.	1.1	5
98	Diffusive motion on a fractal; $G_{nm}(t)$ . Physical Review A, 1985, 32, 2324-2335.	1.0	55
99	Equations of state of a single polymer chain. Physical Review A, 1985, 32, 3661-3664.	1.0	9
100	Diffusion on the Sierpiński gaskets: A random walker on a fractally structured object. Physical Review A, 1984, 29, 2751-2755.	1.0	58
101	Diffusion on a one-dimensional disordered lattice: A renormalization-group approach. Physical Review A, 1984, 29, 2114-2124.	1.0	8
102	Phase Separation in Two-Dimensional He <sup>3</sup> -He <sup>4</sup> Mixtures. Physical Review Letters, 1984, 53, 795-797.	2.9	13
103	Random walking on a fractal. Physical Review A, 1984, 30, 1112-1114.	1.0	13
104	Structure and Modes of a Superfluid Atmosphere. Physical Review Letters, 1983, 51, 1765-1767.	2.9	6
105	Double sine-Gordon chain. Physical Review B, 1983, 27, 474-494.	1.1	108
106	Sticking of H <sub>2</sub> to helium surfaces. Physical Review B, 1983, 27, 1629-1634.	1.1	5
107	Spin-polarized hydrogen-helium film system: A surface "polaron". Physical Review B, 1982, 25, 4570-4582.	1.1	17
108	Third sound in layered superfluids: H <sub>2</sub> on He <sup>4</sup> . Physical Review B, 1982, 25, 5749-5755.	1.1	58

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109	Korteweg-de Vries solitons and helium films. <i>Physical Review B</i> , 1982, 25, 3117-3122.	1.1	11
110	One-dimensional harmonic liquid: A Fokker-Planck description of fluctuations from the nonequilibrium steady state. <i>Physical Review A</i> , 1982, 26, 1062-1077.	1.0	5
111	Hydrodynamic modes of $\text{H}\hat{\text{a}}\text{t}^{\text{a}}$ . <i>Physical Review B</i> , 1982, 25, 5707-5710.	1.1	1
112	A model for the solid $^3\text{He}$ magnet?. <i>Journal of Low Temperature Physics</i> , 1982, 47, 321-328.	0.6	4
113	Phase Separation in Films of $\text{He}_3\text{-He}_4$ Mixtures. <i>Physical Review Letters</i> , 1981, 46, 1461-1464.	2.9	111
114	Third Sound in Layered Films: $\text{H}\hat{\text{a}}\text{t}^{\text{a}}$ - $\text{He}_4$ and $\text{He}_3\text{-He}_4$ . <i>Physical Review Letters</i> , 1981, 47, 349-352.	2.9	23
115	Structure of a compressible superfluid. <i>Physical Review B</i> , 1981, 24, 2874-2877.	1.1	14
116	Conductivity of the randomly disordered sine-Gordon chain. <i>Physical Review B</i> , 1981, 23, 3573-3576.	1.1	2
117	Overdamped soliton motion. <i>Physical Review B</i> , 1981, 23, 5880-5889.	1.1	3
118	Spin-lattice models for the solid $^3\text{He}$ magnet. <i>Journal of Low Temperature Physics</i> , 1980, 39, 63-78.	0.6	0
119	Magnetic ordering in a normal Fermi liquid. II. Strongly polarized systems and the melting curve of $\text{He}_3$ . <i>Physical Review B</i> , 1980, 21, 3917-3928.	1.1	2
120	Dynamics of nonlinear systems: The heavy damping limit. <i>Physical Review B</i> , 1980, 21, 4484-4499.	1.1	11
121	Ground state of isotopic fermion-boson mixtures. <i>Physical Review B</i> , 1980, 22, 142-153.	1.1	15
122	Commensurability in one dimension at $T=0$ : The role of kinks. <i>Physical Review B</i> , 1979, 20, 4748-4755.	1.1	6
123	Critical Superflow in a Random Network. <i>Physical Review Letters</i> , 1979, 43, 1163-1167.	2.9	8
124	Interaction of Atomic Hydrogen with the Surface of Liquid $\text{He}_4$ . <i>Physical Review Letters</i> , 1979, 42, 1754-1757.	2.9	44
125	Commensurability in One Dimension at $T=0$ . <i>Physical Review Letters</i> , 1979, 42, 718-722.	2.9	29
126	Sine-Gordon chain as a model for a two-dimensional interface. <i>Physical Review B</i> , 1979, 20, 4375-4381.	1.1	3



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127	Review paper: Solid $^3\text{He}$ : A magnet in search of a Hamiltonian. Journal of Low Temperature Physics, 1978, 30, 1-50.	0.6	74
128	The sine-Gordon chain. II. Nonequilibrium statistical mechanics. Physical Review A, 1978, 17, 1774-1791.	1.0	54
129	The sine-Gordon chain: Equilibrium statistical mechanics. Physical Review A, 1978, 17, 1205-1217.	1.0	55
130	Brownian Motion of Coupled Nonlinear Oscillators: Thermalized Solitons and Nonlinear Response to External Forces. Physical Review Letters, 1978, 40, 206-210.	2.9	103
131	Kirkwood-Monroe approximation for quantum solids. Physical Review B, 1978, 18, 3189-3196.	1.1	5
132	Magnetic ordering in a normal Fermi liquid at absolute zero. Physical Review B, 1978, 18, 3521-3529.	1.1	4
133	Superfluidity in neutron stars. III - Relaxation processes between the superfluid and the crust. Astrophysical Journal, 1978, 222, 991.	1.6	16
134	Vacancy-Induced Ferromagnetism: The Registered Phase of $^3\text{He}$ on Grafoil. Physical Review Letters, 1977, 39, 1091-1094.	2.9	23
135	Vacancy motion in solid helium. Journal of Low Temperature Physics, 1977, 28, 449-472.	0.6	17
136	Theory of exchange via double-occupation states in crystalline $^3\text{He}$ . Physical Review B, 1975, 11, 1045-1052.	1.1	7
137	Solid neutron matter. Physical Review D, 1975, 11, 2696-2723.	1.6	14
138	$(^3\text{He})_2$ Molecules in Solid $^4\text{He}$ . Physical Review Letters, 1975, 35, 1007-1010.	2.9	15
139	Quantum-crystal alloys I: Mass-fluctuation waves. Physical Review B, 1975, 11, 3374-3392.	1.1	24
140	Electrical conductivity and magnetic field decay in neutron stars. Astrophysical Journal, 1975, 202, 238.	1.6	29
141	Solid $^3\text{He}$ magnetism: A review of experiments. Physical Review A, 1974, 9, 1452-1455.	1.0	58
142	Mass-Fluctuation Waves in Solid $^3\text{He}$ - $^4\text{He}$ Mixtures. Physical Review Letters, 1974, 33, 283-287.	2.9	11
143	Exchange operator. Physical Review A, 1974, 10, 1785-1799.	1.0	10
144	$^3\text{He}$ -CMN boundary resistance. Journal of Low Temperature Physics, 1973, 10, 157-165.	0.6	29

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145	Multiple Exchange in the Quantum Crystals. Physical Review A, 1973, 7, 1105-1130.	1.0	34
146	NMR in Nondilute SolidHe3-He4Mixtures. Physical Review A, 1972, 5, 2541-2544.	1.0	8
147	Vacancy waves. Journal of Low Temperature Physics, 1972, 8, 427-447.	0.6	52
148	On the specific heat of solid3He. Journal of Low Temperature Physics, 1972, 6, 251-256.	0.6	13
149	Excitations in Quantum Crystals (A Survey of NMR Experiments in Solid Helium). Reviews of Modern Physics, 1971, 43, 532-600.	16.4	260
150	Superfluidity in Quantum Crystals. Physical Review Letters, 1971, 26, 174-177.	2.9	40
151	Specific Heat Anomaly in SolidHe3. Physical Review Letters, 1970, 24, 810-811.	2.9	6
152	Mass Fluctuation Waves. Physical Review Letters, 1970, 24, 660-663.	2.9	52
153	Thermal Conductivity of Oriented Single Crystals of Hexagonal Close-Packed Helium 4. Physical Review, 1969, 185, 356-373.	2.7	70
154	Comment on the Article by H. D. Weymann. American Journal of Physics, 1969, 37, 231-231.	0.3	0
155	Tunneling and Exchange in Quantum Solids. Physical Review, 1969, 188, 445-468.	2.7	86
156	Nuclear Relaxation in SolidHe3at Low Temperatures. Physical Review, 1967, 163, 181-185.	2.7	22
157	Solid Helium. Scientific American, 1967, 217, 84-95.	1.0	3
158	Solution of the Linearized Phonon Boltzmann Equation. Physical Review, 1966, 148, 766-778.	2.7	707
159	Thermal Conductivity, Second Sound, and Phonon Hydrodynamic Phenomena in Nonmetallic Crystals. Physical Review, 1966, 148, 778-788.	2.7	465
160	Second Sound in Solid Helium. Physical Review Letters, 1966, 16, 789-791.	2.9	345
161	Thermal Conductivity in Isotopic Mixtures of Solid Helium. Physical Review, 1966, 142, 79-85.	2.7	48
162	Acoustic Attenuation in Dielectric Solids. Physical Review, 1966, 148, 789-797.	2.7	45

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163	Dispersion Relation for Second Sound in Solids. Physical Review, 1964, 133, A1411-A1417.	2.7	123