

Lu Jeu Sham

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

218
papers

64,356
citations

72
h-index

240
g-index

240
ext. papers

68,967
ext. citations

5.4
avg. IF

7.43
L-index

#	Paper	IF	Citations
218	Nonlocal Nuclear Spin Quieting in Quantum Dot Molecules: Optically Induced Extended Two-Electron Spin Coherence Time. <i>Physical Review Letters</i> , 2016 , 117, 077403	7.4	13
217	Discovery of a photoresponse amplification mechanism in compensated PN junctions. <i>Applied Physics Letters</i> , 2015 , 106, 031103	3.4	11
216	Cycling excitation process: An ultra efficient and quiet signal amplification mechanism in semiconductor. <i>Applied Physics Letters</i> , 2015 , 107, 053505	3.4	11
215	Coherent control to prepare an InAs quantum dot for spin-photon entanglement. <i>Physical Review Letters</i> , 2014 , 112, 126801	7.4	7
214	Demonstration of quantum entanglement between a single electron spin confined to an InAs quantum dot and a photon. <i>Physical Review Letters</i> , 2013 , 110, 167401	7.4	99
213	Theory of atomistic simulation of spin-transfer torque in nanomagnets. <i>Physical Review B</i> , 2013 , 87,	3.3	5
212	Quantum approach of mesoscopic magnet dynamics with spin transfer torque. <i>Physical Review B</i> , 2013 , 87,	3.3	10
211	Rapid creation of distant entanglement by multiphoton resonant fluorescence. <i>Physical Review B</i> , 2013 , 88,	3.3	1
210	Coherent control with optical pulses for deterministic spin-photon entanglement. <i>Physical Review B</i> , 2013 , 88,	3.3	3
209	Direct detection of time-resolved Rabi oscillations in a single quantum dot via resonance fluorescence. <i>Physical Review B</i> , 2013 , 87,	3.3	24
208	Robust distant entanglement generation using coherent multiphoton scattering. <i>Physical Review Letters</i> , 2013 , 110, 070501	7.4	5
207	General theory of feedback control of a nuclear spin ensemble in quantum dots. <i>Physical Review B</i> , 2013 , 88,	3.3	15
206	A theory of quantum dynamics of a nanomagnet under excitation 2013 ,		1
205	Quantum correlation of an optically controlled quantum system. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, A25	1.7	4
204	Collective nuclear stabilization in single quantum dots by noncollinear hyperfine interaction. <i>Physical Review B</i> , 2012 , 85,	3.3	17
203	Quantum dynamics of a nanomagnet driven by spin-polarized current. <i>Physical Review B</i> , 2012 , 85,	3.3	18
202	Persistent optical nuclear spin narrowing in a singly charged InAs quantum dot. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, A119	1.7	2

201	Persistent narrowing of nuclear-spin fluctuations in InAs quantum dots using laser excitation. <i>Physical Review Letters</i> , 2012 , 108, 187401	7.4	16
200	Optically controlled phase gate for two spin qubits in coupled quantum dots. <i>Physical Review B</i> , 2012 , 85,	3.3	12
199	Precision of electromagnetic control of a quantum system. <i>Physical Review A</i> , 2011 , 84,	2.6	7
198	Picosecond optical spectroscopy of a single negatively charged self-assembled InAs quantum dot. <i>Applied Physics Letters</i> , 2010 , 97, 113110	3.4	12
197	Proposal for efficient generation of spin-polarized current in silicon. <i>Applied Physics Letters</i> , 2010 , 96, 212107	3.4	6
196	Quantum computing by optical control of electron spins. <i>Advances in Physics</i> , 2010 , 59, 703-802	18.4	84
195	Dynamics revealed by correlations of time-distributed weak measurements of a single spin. <i>New Journal of Physics</i> , 2010 , 12, 013018	2.9	15
194	Fast spin rotations by optically controlled geometric phases in a charge-tunable InAs quantum dot. <i>Physical Review Letters</i> , 2010 , 104, 167401	7.4	70
193	Josephson oscillations between exciton condensates in electrostatic traps. <i>Physical Review B</i> , 2009 , 80,	3.3	11
192	Nonperturbative phenomena in semiconductor four-wave mixing spectra. <i>Physical Review B</i> , 2009 , 79,	3.3	3
191	Theory of Umklapp-assisted recombination of bound excitons in Si:P. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 084218	1.8	1
190	Density functionals beyond the local density approximation. <i>International Journal of Quantum Chemistry</i> , 2009 , 28, 491-495	2.1	
189	Optically controlled locking of the nuclear field via coherent dark-state spectroscopy. <i>Nature</i> , 2009 , 459, 1105-9	50.4	181
188	Thermoelectric Properties of Junctions Between Metal and Models of Strongly Correlated Semiconductors. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2009 , 193-211	0.2	
187	Coherent population trapping of an electron spin in a single negatively charged quantum dot. <i>Nature Physics</i> , 2008 , 4, 692-695	16.2	168
186	Stimulated Raman spin coherence and spin-flip induced hole burning in charged GaAs quantum dots. <i>Physical Review B</i> , 2008 , 77,	3.3	4
185	Femtosecond demagnetization and hot-hole relaxation in ferromagnetic Ga _{1-x} Mn _x As. <i>Physical Review B</i> , 2008 , 77,	3.3	34
184	Single charged quantum dot in a strong optical field: absorption, gain, and the ac-Stark effect. <i>Physical Review Letters</i> , 2008 , 101, 227401	7.4	44

183	CONTROL OF ELECTRON SPIN DECOHERENCE IN MESOSCOPIC NUCLEAR SPIN BATHS. <i>International Journal of Modern Physics B</i> , 2008 , 22, 27-32	1.1	
182	Adiabatic optical entanglement between electron spins in separate quantum dots. <i>Physical Review B</i> , 2008 , 78,	3.3	10
181	Fast spin state initialization in a singly charged InAs-GaAs quantum dot by optical cooling. <i>Physical Review Letters</i> , 2007 , 99, 097401	7.4	216
180	Spin-based logic in semiconductors for reconfigurable large-scale circuits. <i>Nature</i> , 2007 , 447, 573-6	50.4	326
179	ELECTRICAL EXPRESSION OF SPIN ACCUMULATION IN FERROMAGNET/SEMICONDUCTOR STRUCTURES. <i>Modern Physics Letters B</i> , 2007 , 21, 1509-1529	1.6	
178	Control of electron spin decoherence caused by electron-nuclear spin dynamics in a quantum dot. <i>New Journal of Physics</i> , 2007 , 9, 226-226	2.9	84
177	Optically controlled single-qubit rotations in self-assembled InAs quantum dots. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 056203	1.8	25
176	Selective optical control of electron spin coherence in singly charged GaAs-Al _{0.3} Ga _{0.7} As quantum dots. <i>Physical Review Letters</i> , 2007 , 99, 097402	7.4	56
175	Restoring coherence lost to a slow interacting mesoscopic spin bath. <i>Physical Review Letters</i> , 2007 , 98, 077602	7.4	129
174	Many-body interaction in semiconductors probed with two-dimensional Fourier spectroscopy. <i>Physical Review B</i> , 2007 , 76,	3.3	10
173	Photoluminescence spectral switching of single CdSe/ZnS colloidal nanocrystals in poly(methyl methacrylate). <i>Physical Review B</i> , 2007 , 76,	3.3	6
172	Theory of nonlinear optical spectroscopy of electron spin coherence in quantum dots. <i>Physical Review B</i> , 2007 , 75,	3.3	3
171	Optically manipulating spins in semiconductor quantum dots. <i>Journal of Applied Physics</i> , 2007 , 101, 081721	2.5	6
170	Single-electron spin decoherence by nuclear spin bath: Linked-cluster expansion approach. <i>Physical Review B</i> , 2007 , 75,	3.3	65
169	Publisher's Note: Restoring Coherence Lost to a Slow Interacting Mesoscopic Spin Bath [Phys. Rev. Lett. 98, 077602 (2007)]. <i>Physical Review Letters</i> , 2007 , 98,	7.4	3
168	Fast initialization of the spin state of an electron in a quantum dot in the Voigt configuration. <i>Physical Review Letters</i> , 2007 , 98, 047401	7.4	64
167	Optically controlled logic gates for two spin qubits in vertically coupled quantum dots. <i>Physical Review B</i> , 2007 , 75,	3.3	34
166	Spin extraction theory and its relevance to spintronics. <i>Physical Review Letters</i> , 2007 , 98, 046602	7.4	68

165	Coherent optical spectroscopy of a strongly driven quantum dot. <i>Science</i> , 2007 , 317, 929-32	33.3	271
164	Ultrafast demagnetization in the $sp\bar{d}$ model: A theoretical study. <i>Physical Review B</i> , 2007 , 76,	3.3	69
163	Proposal for optical U(1) rotations of electron spin trapped in a quantum dot. <i>Physical Review B</i> , 2006 , 74,	3.3	100
162	Spin transference and magnetoresistance amplification in a transistor. <i>Physical Review B</i> , 2006 , 73,	3.3	28
161	Electric readout of magnetization dynamics in a ferromagnet-semiconductor system. <i>Applied Physics Letters</i> , 2006 , 89, 042105	3.4	11
160	Spintronics for electrical measurement of light polarization. <i>Journal of Applied Physics</i> , 2006 , 100, 063713.	3.5	7
159	Theory of electron spin decoherence by interacting nuclear spins in a quantum dot. <i>Physical Review B</i> , 2006 , 74,	3.3	236
158	Lateral diffusive spin transport in layered structures. <i>Physical Review B</i> , 2006 , 73,	3.3	38
157	Ultrafast magneto-optics in ferromagnetic III-V semiconductors. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, R501-R530	1.8	77
156	Ultrafast optical control of electron spin coherence in charged GaAs quantum dots. <i>Physical Review B</i> , 2006 , 74,	3.3	31
155	Linking entanglement and quantum phase transitions via density-functional theory. <i>Physical Review A</i> , 2006 , 74,	2.6	86
154	Theory of control of the spin-photon interface for quantum networks. <i>Physical Review Letters</i> , 2005 , 95, 030504	7.4	142
153	Stimulated and spontaneous optical generation of electron spin coherence in charged GaAs quantum dots. <i>Physical Review Letters</i> , 2005 , 94, 227403	7.4	217
152	Theory of control of the dynamics of the interface between stationary and flying qubits. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2005 , 7, S318-S325		10
151	Coherent control of cavity quantum electrodynamics for quantum nondemolition measurements and ultrafast cooling. <i>Physical Review B</i> , 2005 , 72,	3.3	21
150	Unified theory of consequences of spontaneous emission in a $\bar{3}$ system. <i>Physical Review B</i> , 2005 , 71,	3.3	50
149	Coherent transport in a homojunction between an excitonic insulator and semimetal. <i>Physical Review Letters</i> , 2005 , 94, 186404	7.4	9
148	Indirect coupling between spins in semiconductor quantum dots. <i>Physical Review B</i> , 2005 , 71,	3.3	12

147	Ultrafast quenching of ferromagnetism in InMnAs induced by intense laser irradiation. <i>Physical Review Letters</i> , 2005 , 95, 167401	7.4	85
146	Optically Driven Quantum Computing Devices Based on Semiconductor Quantum Dots 2005 , 147-161		
145	Theory of spin transport induced by ferromagnetic proximity on a two-dimensional electron gas. <i>Physical Review B</i> , 2004 , 69,	3.3	12
144	Nanodot-cavity electrostatics and photon entanglement. <i>Physical Review Letters</i> , 2004 , 92, 217402	7.4	28
143	Spin accumulation in forward-biased MnAs/GaAs Schottky diodes. <i>Physical Review Letters</i> , 2004 , 93, 097602	7.4	80
142	Raman coherence beats from the entangled state involving polarized excitons in single quantum dots. <i>Physical Review B</i> , 2004 , 70,	3.3	14
141	Theory of quantum optical control of a single spin in a quantum dot. <i>Physical Review B</i> , 2004 , 69,	3.3	143
140	Silicon inversion layer with a ferromagnetic gate: A novel spin source (invited). <i>Journal of Applied Physics</i> , 2004 , 95, 6625-6629	2.5	5
139	Coherently photoinduced ferromagnetism in diluted magnetic semiconductors. <i>Physical Review Letters</i> , 2004 , 93, 127201	7.4	34
138	An all-optical quantum gate in a semiconductor quantum dot. <i>Science</i> , 2003 , 301, 809-11	33.3	746
137	Spin-dependent properties of a two-dimensional electron gas with ferromagnetic gates. <i>Applied Physics Letters</i> , 2002 , 81, 4781-4783	3.4	41
136	Spin polarization of semiconductor carriers by reflection off a ferromagnet. <i>Physical Review Letters</i> , 2002 , 89, 156601	7.4	65
135	Optical RKKY interaction between charged semiconductor quantum dots. <i>Physical Review Letters</i> , 2002 , 89, 167402	7.4	143
134	Biexciton quantum coherence in a single quantum dot. <i>Physical Review Letters</i> , 2002 , 88, 117901	7.4	115
133	Theory of fast quantum control of exciton dynamics in semiconductor quantum dots. <i>Physical Review B</i> , 2002 , 65,	3.3	48
132	Theory of ballistic electron emission microscopy. <i>Physical Review B</i> , 2001 , 64,	3.3	4
131	Evidence of six-particle Coulomb correlations in six-wave-mixing signals from a semiconductor quantum well. <i>Physical Review B</i> , 2001 , 63,	3.3	33
130	Rabi oscillations of excitons in single quantum dots. <i>Physical Review Letters</i> , 2001 , 87, 133603	7.4	546

129	Control of exciton dynamics in nanodots for quantum operations. <i>Physical Review Letters</i> , 2001 , 87, 067401	4.1	170
128	Theory of ferromagnetism in planar heterostructures of (Mn,III)-V semiconductors. <i>Physical Review B</i> , 2001 , 64,	3.3	51
127	Theory of ballistic electron emission microscopy with constant current feedback. <i>Applied Physics Letters</i> , 2000 , 76, 3989-3991	3.4	1
126	Polariton-biexciton transitions in a semiconductor microcavity. <i>Physical Review Letters</i> , 2000 , 84, 2215-8	7.4	36
125	Electronic four-particle correlations in semiconductors: Renormalization of coherent pump-probe oscillations. <i>Physical Review B</i> , 2000 , 61, R7835-R7837	3.3	21
124	Demonstration of sixth-order coulomb correlations in a semiconductor single quantum well. <i>Physical Review Letters</i> , 2000 , 85, 2002-5	7.4	57
123	Optically induced entanglement of excitons in a single quantum Dot. <i>Science</i> , 2000 , 289, 1906-9	3.3	218
122	Thermoelectric properties of junctions between metal and strongly correlated semiconductor. <i>Applied Physics Letters</i> , 2000 , 77, 3033-3035	3.4	9
121	Excitonic effects in linear and nonlinear optical properties of C60. <i>Physical Review B</i> , 1999 , 59, 1857-1869	3.3	11
120	Collective Oscillations Driven by Correlation in the Nonlinear Optical Regime. <i>Physical Review Letters</i> , 1999 , 83, 3510-3513	7.4	20
119	Theory of exciton-exciton correlation in nonlinear optical response. <i>Physical Review B</i> , 1998 , 58, 12920-12936	3.3	100
118	Probing the Schottky barrier with conduction electron spin resonance. <i>Physical Review B</i> , 1997 , 55, 13745-13753	3.3	3
117	Kondo Insulator: p-wave Bose Condensate of Excitons. <i>Physical Review Letters</i> , 1997 , 79, 2097-2100	7.4	14
116	SEMICONDUCTOR DEVICES: Closer to Coherence Control. <i>Science</i> , 1997 , 277, 1258-1259	3.3	15
115	Theory of electronic ferroelectricity. <i>Physical Review B</i> , 1996 , 54, 17452-17463	3.3	114
114	Linear and nonlinear optical characteristics of the Falicov-Kimball model. <i>Physical Review Letters</i> , 1996 , 76, 3384-3387	7.4	67
113	Density Functional Theory and Computational Materials Physics. <i>Kluwer International Series in Engineering and Computer Science</i> , 1996 , 13-22		
112	Some efforts beyond the local density approximation. <i>International Journal of Quantum Chemistry</i> , 1995 , 56, 345-350	2.1	4

111	Theory of spin beatings in the Faraday rotation of semiconductors. <i>Physical Review Letters</i> , 1995 , 75, 2554-2557	7.4	35
110	Exciton-exciton correlation in the nonlinear optical regime. <i>Physical Review Letters</i> , 1995 , 74, 4698-4701	7.4	138
109	Coherence and correlation in laser excitation of semiconductor quantum wells. <i>Nuovo Cimento Della Societa Italiana Di Fisica D - Condensed Matter, Atomic, Molecular and Chemical Physics, Biophysics</i> , 1995 , 17, 1315-1322		1
108	Exchange-correlation potentials at semiconductor interfaces. <i>Physical Review B</i> , 1994 , 49, 1849-1857	3.3	30
107	Interacting electron theory of coherent nonlinear response. <i>Physical Review Letters</i> , 1994 , 73, 3310-3313	7.4	53
106	Boundary conditions for envelope functions at interfaces between dissimilar materials. <i>Physical Review B</i> , 1994 , 49, 10533-10543	3.3	37
105	Exciton dynamics in GaAs quantum wells under resonant excitation. <i>Physical Review B</i> , 1994 , 50, 10868-10879	3.3	221
104	First-principles calculations of the specific-heat mass enhancements in UIr ₃ , UPt ₃ , and UAu ₃ . <i>Physical Review Letters</i> , 1994 , 72, 2923-2926	7.4	43
103	Exciton spin dynamics in quantum wells. <i>Physical Review B</i> , 1993 , 47, 15776-15788	3.3	463
102	Theory of zone-folded optical transitions in semiconductor superlattices. <i>Applied Physics Letters</i> , 1993 , 63, 3253-3255	3.4	5
101	Electronic Properties in Semiconductor Heterostructures 1993 , 1-56		1
100	Spin relaxation in semiconductor quantum wells. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, A51-A60	1.8	52
99	Theory of the electronic properties of delta -doped layers with DX centers in semiconductor heterostructures. <i>Physical Review B</i> , 1993 , 48, 8948-8958	3.3	31
98	Electron distribution in pseudomorphic Al _{0.30} Ga _{0.70} As/ In _{0.15} Ga _{0.85} As/GaAs δ -doped heterostructures. <i>Journal of Applied Physics</i> , 1993 , 74, 1161-1168	2.5	19
97	Electric field dependence of exciton spin relaxation in GaAs/AlGaAs quantum wells. <i>Applied Physics Letters</i> , 1993 , 63, 3164-3166	3.4	52
96	Optimization of charge transfer to the active channel in δ -doped heterostructures. <i>Journal of Applied Physics</i> , 1993 , 74, 2613-2618	2.5	2
95	Spin dynamics in doped and intrinsic GaAs quantum wells. <i>Physica Scripta</i> , 1993 , T49B, 464-469	2.6	1
94	Theory of Spin Dynamics of Excitons and Free Carriers in Quantum Wells 1993 , 201-211		1

93	Theory of luminescence polarization anisotropy in quantum wires. <i>Physical Review B</i> , 1992 , 45, 9443-9446.	3	51
92	Tailoring infrared optical properties with superlattices of superlattices. <i>Physical Review B</i> , 1992 , 46, 7787-7793.	5	5
91	Quasiparticle properties of Fe, Co, and Ni. <i>Physical Review B</i> , 1992 , 45, 13272-13284.	3-3	86
90	Perturbation theory of the electronic properties in strongly correlated solids. <i>Physical Review B</i> , 1991 , 43, 1637-1650.	3-3	43
89	Infrared optical properties of lateral superlattices on vicinal planes. <i>Applied Physics Letters</i> , 1991 , 59, 2010-2012.	3-4	3
88	Absence of spin polarization in the thermocurrent emitted by a cesiated ferromagnetic iron surface. <i>Physical Review B</i> , 1991 , 44, 13678-13680.	3-3	4
87	Subpicosecond spin relaxation dynamics of excitons and free carriers in GaAs quantum wells. <i>Physical Review Letters</i> , 1991 , 67, 3432-3435.	7-4	310
86	Tunneling cyclotron resonance and the renormalized effective mass in semiconductor barriers. <i>Physical Review Letters</i> , 1990 , 64, 471-474.	7-4	53
85	Effect of finite hole mass on edge singularities in optical spectra. <i>Physical Review Letters</i> , 1990 , 65, 1048-1051.	7-4	93
84	Carrier relaxation and luminescence polarization in quantum wells. <i>Physical Review B</i> , 1990 , 42, 7114-7123.	3	86
83	Exchange-correlation potentials in Schottky barriers and heterojunctions. <i>Physical Review Letters</i> , 1990 , 65, 2083.	7-4	15
82	Hole relaxation and luminescence polarization in doped and undoped quantum wells. <i>Physical Review Letters</i> , 1990 , 64, 3070-3073.	7-4	137
81	The Beginnings and Some Thoughts on the Future. <i>Advances in Quantum Chemistry</i> , 1990 , 21, 7-26.	1-4	48
80	Many-body theory of magneto-optical spectra in doped quantum wells. <i>Physical Review B</i> , 1989 , 39, 11044-11047.	3	127
79	Valley-mixing effects in short-period superlattices. <i>Physical Review B</i> , 1989 , 40, 5567-5578.	3-3	115
78	Classification of Magneto-excitons in Quantum Wells. <i>Springer Series in Solid-state Sciences</i> , 1989 , 232-239.	4	2
77	Self-energy operators and exchange-correlation potentials in semiconductors. <i>Physical Review B</i> , 1988 , 37, 10159-10175.	3-3	1127
76	Comment on "Density-functional treatment of an exactly solvable semiconductor model". <i>Physical Review Letters</i> , 1988 , 60, 1582.	7-4	12

75	Density-functional theory in insulators: Analytical model for Sigma xc, vxc, and the gap correction. <i>Physical Review B</i> , 1988 , 38, 13361-13370	3-3	28
74	Theory of magneto-optical properties in quantum wells of narrow-gap semiconductors. <i>Physical Review B</i> , 1988 , 38, 9810-9818	3-3	9
73	Inhomogeneous excited states in superconductors. <i>Physical Review B</i> , 1988 , 38, 5084-5086	3-3	5
72	Tuning of the valence-band structure of GaAs quantum wells by uniaxial stress. <i>Physical Review Letters</i> , 1987 , 58, 1150-1153	7-4	74
71	Quasiparticle energies in GaAs and AlAs. <i>Physical Review B</i> , 1987 , 35, 4170-4171	3-3	163
70	Trends in self-energy operators and their corresponding exchange-correlation potentials. <i>Physical Review B</i> , 1987 , 36, 6497-6500	3-3	379
69	Theory of magnetoexcitons in quantum wells. <i>Physical Review Letters</i> , 1987 , 58, 2598-2601	7-4	143
68	Theory of p-Type Inversion Layers in Magnetic Fields. <i>Springer Series in Solid-state Sciences</i> , 1987 , 288-294.	4	3
67	Valence-band coupling and Fano-resonance effects on the excitonic spectrum in undoped quantum wells. <i>Physical Review B</i> , 1986 , 34, 3917-3923	3-3	138
66	Accurate exchange-correlation potential for silicon and its discontinuity on addition of an electron. <i>Physical Review Letters</i> , 1986 , 56, 2415-2418	7-4	680
65	Interface states and subbands in HgTe-CdTe heterostructures. <i>Physical Review B</i> , 1985 , 32, 5561-5563	3-3	92
64	Holes at GaAs-Al _x Ga _{1-x} As heterojunctions in magnetic fields. <i>Physical Review B</i> , 1985 , 32, 6630-6633	3-3	62
63	Calculation of the Kohn-Sham potential and its discontinuity for a model-semiconductor. <i>Physical Review B</i> , 1985 , 32, 3890-3899	3-3	69
62	Effective masses of holes at GaAs-AlGaAs heterojunctions. <i>Physical Review B</i> , 1985 , 31, 888-892	3-3	421
61	Exchange and correlation in density-functional theory. <i>Physical Review B</i> , 1985 , 32, 3876-3882	3-3	157
60	Density-functional theory of the band gap. <i>Physical Review B</i> , 1985 , 32, 3883-3889	3-3	290
59	Excitonic effect in the optical spectrum of semiconductors. <i>Physical Review B</i> , 1985 , 31, 2092-2098	3-3	44
58	Enhanced far-infrared absorption in CePd ₃ and YbCu ₂ Si ₂ . III. Comparison of a resonant-scattering model with experiment. <i>Physical Review B</i> , 1984 , 30, 3068-3072	3-3	16

57	Enhanced far-infrared absorption in CePd ₃ and YbCu ₂ Si ₂ . II. Infrared-active optic phonons in metals. <i>Physical Review B</i> , 1984 , 30, 3062-3067	3.3	8
56	Superconductivity from nonphonon interactions. <i>Physical Review B</i> , 1984 , 29, 6132-6142	3.3	134
55	A theory of superconducting transition temperature for non-phonon interactions. <i>Journal of Low Temperature Physics</i> , 1983 , 50, 391-402	1.3	18
54	Density-Functional Theory of the Energy Gap. <i>Physical Review Letters</i> , 1983 , 51, 1888-1891	7.4	1434
53	Role of electron Coulomb interaction in superconductivity. <i>Physical Review B</i> , 1983 , 28, 5100-5108	3.3	108
52	Valley phase transition of Si inversion layers in high magnetic fields 1983 , 143-146		
51	Valley phase transition of a Si inversion layer in high magnetic fields. <i>Physical Review B</i> , 1982 , 26, 5611-5616	3.3	1
50	Effective-mass theory for electrons in heterostructures. <i>Journal of Vacuum Science and Technology</i> , 1982 , 21, 544-547		27
49	Electronic Properties of Flat-Band Semiconductor Heterostructures. <i>Physical Review Letters</i> , 1981 , 47, 879-882	7.4	244
48	Theory of electron-avalanche breakdown in solids. <i>Physical Review B</i> , 1981 , 24, 3519-3536	3.3	200
47	Many-particle effects in the optical spectrum of a semiconductor. <i>Physical Review B</i> , 1980 , 21, 4656-4673	3.3	384
46	Effective-mass approximation in the presence of an interface. <i>Physical Review B</i> , 1979 , 20, 734-747	3.3	117
45	Interaction-Induced Transition at Low Densities in Silicon Inversion Layer. <i>Physical Review Letters</i> , 1979 , 43, 1529-1532	7.4	56
44	Many-Particle Effects in the Optical Excitations of a Semiconductor. <i>Physical Review Letters</i> , 1979 , 43, 387-390	7.4	200
43	Perturbation Approach to Lattice Instabilities in Quasi-One-Dimensional Conductors 1979 , 227-245		5
42	Valley-Valley Splitting in Inversion Layers on a High-Index Surface of Silicon. <i>Physical Review Letters</i> , 1978 , 40, 472-475	7.4	81
41	Electrodynamics of quasi-two-dimensional electrons. <i>Physical Review B</i> , 1977 , 16, 651-661	3.3	210
40	Theory of Structural Variation in a Quasi-One-Dimensional Conductor. <i>Physical Review Letters</i> , 1976 , 36, 733-736	7.4	28

39	Effect of impurity on a Peierls transition. <i>Physical Review B</i> , 1976 , 13, 3151-3153	3-3	135
38	Charge-density wave stacking order in $1T\text{Ta}_{1-x}\text{Zr}_x\text{Se}_2$: Interlayer interactions and impurity (Zr) effects. <i>Physical Review B</i> , 1976 , 14, 3432-3437	3-3	121
37	Transport properties of the Peierls system 1975 , 272-281		1
36	Microscopic theory of the driving force in electromigration. <i>Physical Review B</i> , 1975 , 12, 3142-3149	3-3	78
35	Local-field and excitonic effects in the optical spectrum of a covalent crystal. <i>Physical Review B</i> , 1975 , 12, 4501-4511	3-3	209
34	Dielectric Response in the Wannier Representation: Application to the Optical Spectrum of Diamond. <i>Physical Review Letters</i> , 1974 , 33, 582-585	7-4	131
33	Fluctuation Conductivity in the Incommensurate Peierls System. <i>Physical Review Letters</i> , 1974 , 33, 638-641	7-4	59
32	Explicit exponential frequency dependence of multiphonon infrared absorption. <i>Physical Review B</i> , 1974 , 9, 827-829	3-3	22
31	Electronic Influence on Lattice Dynamics 1974 , 1-23		
30	Conductivity, Superconductivity, and the Peierls Instability. <i>Physical Review Letters</i> , 1973 , 31, 631-634	7-4	98
29	Theory of Multiphonon Absorption in Insulating Crystals. <i>Physical Review B</i> , 1973 , 8, 3037-3048	3-3	59
28	Temperature Dependence of Multiphonon Infrared Absorption. <i>Physical Review Letters</i> , 1973 , 31, 714-717	7-4	26
27	Theory of Structural Phase Transition in Nb_3Sn . <i>Physical Review B</i> , 1973 , 8, 2468-2475	3-3	28
26	Exchange and Correlation in the Electron Gas. <i>Physical Review B</i> , 1973 , 7, 4357-4363	3-3	61
25	Surface Structure of Electron-Hole Droplets. <i>Physical Review Letters</i> , 1973 , 31, 533-536	7-4	59
24	Cohesive Force in Metals. <i>Physical Review B</i> , 1972 , 6, 2509-2511	3-3	4
23	Theory of Lattice Dynamics of Nb_3Sn -Type Compounds. <i>Physical Review B</i> , 1972 , 6, 3584-3592	3-3	42
22	Microscopic Theory of Lattice Dynamics in Conducting Crystals. <i>Physical Review B</i> , 1972 , 6, 3581-3584	3-3	24

21	Lattice Dynamics of Nb ₃ Sn-Type Compounds. <i>Physical Review Letters</i> , 1971 , 27, 1725-1728	7.4	47
20	Thermodynamics of Pressure Effects in V ₃ Si and V ₃ Ge. <i>Physical Review B</i> , 1971 , 4, 3951-3953	3.3	11
19	Ultrasonic Attenuation Due to Electron-Phonon Interaction in Potassium. <i>Physical Review B</i> , 1971 , 4, 674-674	3.3	4
18	Approximations of the Exchange and Correlation Potentials 1971 , 458-468		32
17	Local Exchange Approximations and the Virial Theorem. <i>Physical Review A</i> , 1970 , 1, 969-970	2.6	45
16	Ultrasonic Attenuation Due to Electron-Phonon Interaction in Potassium. <i>Physical Review B</i> , 1970 , 1, 4546-4551	3.3	40
15	Relation between Landau Fermi-Liquid Parameters and High-Temperature Resistivity in Simple Metals. <i>Physical Review</i> , 1969 , 188, 1108-1110		4
14	Electronic Contribution to Lattice Dynamics in Insulating Crystals. <i>Physical Review</i> , 1969 , 188, 1431-1439		219
13	Equilibrium Approach to Second Sound in Solids. <i>Physical Review</i> , 1967 , 156, 494-500		74
12	Temperature Propagation in Anharmonic Solids. <i>Physical Review</i> , 1967 , 163, 401-407		27
11	Theory of the Shallow Impurity States in Semiconductors. <i>Physical Review</i> , 1966 , 150, 720-727		61
10	One-Particle Properties of an Inhomogeneous Interacting Electron Gas. <i>Physical Review</i> , 1966 , 145, 561-567		799
9	Application of a Self-Consistent Scheme Including Exchange and Correlation Effects to Atoms. <i>Physical Review</i> , 1966 , 144, 1-4		232
8	Many-Particle Derivation of the Effective-Mass Equation for the Wannier Exciton. <i>Physical Review</i> , 1966 , 144, 708-714		320
7	Self-Consistent Equations Including Exchange and Correlation Effects. <i>Physical Review</i> , 1965 , 140, A1133-A1138	4.306	
6	Free Energy of an Anharmonic Crystal. <i>Physical Review</i> , 1965 , 139, A1189-A1193		12
5	Quantum Density Oscillations in an Inhomogeneous Electron Gas. <i>Physical Review</i> , 1965 , 137, A1697-A1705		420
4	Self-Consistent Equations Including Exchange and Correlation Effects. <i>Physical Review</i> , 1965 , 140, A1133-A1138		7

- 3 A Calculation of Deformation Potentials in Silicon. *Proceedings of the Physical Society*, **1963**, 81, 934-937 8
- 2 General Theory of Pseudopotentials. *Physical Review*, **1962**, 127, 276-282 335
- 1 Electron-Phonon Interaction by the Method of Pseudo-potentials. *Proceedings of the Physical Society*, **1961**, 78, 895-902 51