

Steven H Simon

List of Publications by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Non-Abelian anyons and topological quantum computation. <i>Reviews of Modern Physics</i> , 2008, 80, 1083-1159.	16.4	4,907
2	MIMO Capacity Through Correlated Channels in the Presence of Correlated Interferers and Noise: A (Not So) Large N Analysis. <i>IEEE Transactions on Information Theory</i> , 2003, 49, 2545-2561.	1.5	295
3	Polarized MIMO channels in 3-D: models, measurements and mutual information. <i>IEEE Journal on Selected Areas in Communications</i> , 2006, 24, 514-527.	9.7	224
4	Communication Through a Diffusive Medium: Coherence and Capacity. <i>Science</i> , 2000, 287, 287-290.	6.0	208
5	Strong peak in $\chi(T)$ of SrRuO_4 under uniaxial pressure. <i>Science</i> , 2017, 355, .	6.0	200
6	Scaling of the Quasiparticle Spectrum for d-wave Superconductors. <i>Physical Review Letters</i> , 1997, 78, 1548-1551.	2.9	152
7	Optimizing MIMO antenna systems with channel covariance feedback. <i>IEEE Journal on Selected Areas in Communications</i> , 2003, 21, 406-417.	9.7	137
8	Charge Separation of Dense Two-Dimensional Electron-Hole Gases: Mechanism for Exciton Ring Pattern Formation. <i>Physical Review Letters</i> , 2004, 92, 117405.	2.9	130
9	Ideal Weyl semimetal induced by magnetic exchange. <i>Physical Review B</i> , 2019, 100, .	1.1	130
10	Quantum Hall physics: Hierarchies and conformal field theory techniques. <i>Reviews of Modern Physics</i> , 2017, 89, .	16.4	114
11	Vortex Lattices in Rotating Atomic Bose Gases with Dipolar Interactions. <i>Physical Review Letters</i> , 2005, 95, 200402.	2.9	113
12	Braid Topologies for Quantum Computation. <i>Physical Review Letters</i> , 2005, 95, 140503.	2.9	112
13	Pairing symmetry and dominant band in Sr_2RuO_4 . <i>Physical Review B</i> , 2014, 89, .	1.1	102
14	Construction of a paired wave function for spinless electrons at filling fraction $\nu = 2\tilde{\nu} + 5$. <i>Physical Review B</i> , 2007, 75, .	1.1	101
15	Breaking of Particle-Hole Symmetry by Landau Level Mixing in the Fractional Quantum Hall State. <i>Physical Review Letters</i> , 2011, 106, 116801.	2.9	98
16	Three-dimensional topological lattice models with surface anyons. <i>Physical Review B</i> , 2013, 87, .	1.1	86
17	Induced Self-Stabilization in Fractional Quantum Hall States of Light. <i>Physical Review X</i> , 2014, 4, .	2.8	86
18	Coupling of surface acoustic waves to a two-dimensional electron gas. <i>Physical Review B</i> , 1996, 54, 13878-13884.	1.1	76

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19	Paired composite-fermion wave functions. Physical Review B, 2008, 77, .	1.1	75
20	Large Chern Number and Edge Currents in $\nu = 2$ Quantum Hall States. Physical Review Letters, 2015, 115, 087003.	2.9	73
21	Finite-wave-vector electromagnetic response of fractional quantized Hall states. Physical Review B, 1993, 48, 17368-17387.	1.1	72
22	Pseudopotentials for multiparticle interactions in the quantum Hall regime. Physical Review B, 2007, 75, .	1.1	72
23	Numerical Analysis of Quasiholes of the Moore-Read Wave Function. Physical Review Letters, 2009, 103, 076801.	2.9	72
24	Capacity of a Gaussian MIMO channel with nonzero mean. , 2003, , .		71
25	Capacity and Character Expansions: Moment-Generating Function and Other Exact Results for MIMO Correlated Channels. IEEE Transactions on Information Theory, 2006, 52, 5336-5351.	1.5	71
26	On the Outage Capacity of Correlated Multiple-Path MIMO Channels. IEEE Transactions on Information Theory, 2007, 53, 3887-3903.	1.5	70
27	Collective Excitations in the Dilute 2D Electron System. Physical Review Letters, 1999, 82, 2163-2166.	2.9	68
28	Signatures of the many-body localized regime in two dimensions. Nature Physics, 2019, 15, 164-169.	6.5	66
29	Optimizing multiple-input single-output (MISO) communication systems with general gaussian channels: nontrivial covariance and nonzero mean. IEEE Transactions on Information Theory, 2003, 49, 2770-2780.	1.5	63
30	Explanation for the Resistivity Law in Quantum Hall Systems. Physical Review Letters, 1994, 73, 3278-3281.	2.9	62
31	Coexistence of Composite Bosons and Composite Fermions in $\nu = 1/2$ Quantum Hall Bilayers. Physical Review Letters, 2003, 91, 046803.	2.9	62
32	Communication in a Disordered World. Physics Today, 2001, 54, 38-43.	0.3	61
33	Topological quantum compiling. Physical Review B, 2007, 75, .	1.1	61
34	Monte Carlo Evaluation of Non-Abelian Statistics. Physical Review Letters, 2003, 90, 016802.	2.9	60
35	Landau level mixing in the perturbative limit. Physical Review B, 2013, 87, .	1.1	60
36	Response function of the fractional quantized Hall state on a sphere. II. Exact diagonalization. Physical Review B, 1994, 50, 1823-1831.	1.1	59

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37	Artificial trapping of a stable high-density dipolar exciton fluid. Physical Review B, 2006, 74, .	1.1	59
38	Generalized quantum Hall projection Hamiltonians. Physical Review B, 2007, 75, .	1.1	58
39	Electrostatic traps for dipolar excitons. Physical Review B, 2005, 72, .	1.1	57
40	Spinful composite fermions in a negative effective field. Physical Review B, 2012, 85, .	1.1	53
41	Composite fermions in a negative effective magnetic field: A Monte Carlo study. Physical Review B, 2005, 72, .	1.1	51
42	Interpretation of thermal conductance of the $\nu = 5/2$ edge. Physical Review B, 2018, 97, .	1.1	51
43	Efficient Representation of Fully Many-Body Localized Systems Using Tensor Networks. Physical Review X, 2017, 7, .	2.8	50
44	Half-filled Landau level as a Fermi liquid of dipolar quasiparticles. Physical Review B, 1999, 59, 12547-12567.	1.1	49
45	Evaluation of Ranks of Real Space and Particle Entanglement Spectra for Large Systems. Physical Review Letters, 2012, 108, 256806.	2.9	49
46	The local field distribution in a fluid. Journal of Chemical Physics, 1990, 93, 2640-2657.	1.2	48
47	Quasiparticle spectrum of d-wave superconductors in the mixed state. Physical Review B, 2000, 62, 3488-3501.	1.1	48
48	Comment on "Evidence for an Anisotropic State of Two-Dimensional Electrons in High Landau Levels". Physical Review Letters, 1999, 83, 4223-4223.	2.9	44
49	A Random Matrix-Theoretic Approach to Handling Singular Covariance Estimates. IEEE Transactions on Information Theory, 2011, 57, 6256-6271.	1.5	44
50	Fractional Quantum Hall Effect of Lattice Bosons Near Commensurate Flux. Physical Review Letters, 2012, 108, 256809.	2.9	44
51	Superconducting order of Sr ₂ RuO ₄ from a three-dimensional microscopic model. Physical Review Research, 2019, 1, .	1.3	44
52	Majorana fermions of a two-dimensional $\nu = 1/2$ quantum Hall state. Physical Review B, 2009, 79, .	1.1	43
53	Eigenvalue density of correlated complex random Wishart matrices. Physical Review E, 2004, 69, 065101.	0.8	42
54	Trial wave functions for $\nu = 1/2$ quantum Hall states. Physical Review B, 2009, 79, .	1.1	42

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55	Global Phase Diagram of the Normal State of Twisted Bilayer Graphene. Physical Review Letters, 2022, 128, 156401.	2.9	42
56	Semiclassical percolation approach to electronic states in simple fluids. Physical Review A, 1990, 42, 6278-6281.	1.0	41
57	Paired Composite Fermion Phase of Quantum Hall Bilayers at $\nu = 1/2$. Physical Review Letters, 2008, 101, 176803.	2.9	41
58	Condensation of achiral simple currents in topological lattice models: Hamiltonian study of topological symmetry breaking. Physical Review B, 2011, 84, .	1.1	41
59	Testing for Majorana Zero Modes in a Superconductor at High Temperature by Tunneling Spectroscopy. Physical Review Letters, 2008, 101, 267002.	2.9	38
60	Bulk-Edge Coupling in the Non-Abelian $\nu = 5/2$ Quantum Hall Interferometer. Physical Review Letters, 2008, 100, 226803.	2.9	38
61	Exact solution for bulk-edge coupling in the non-Abelian $\nu = 5/2$ quantum Hall interferometer. Physical Review B, 2009, 80, .	1.1	35
62	Perturbative approach to flat Chern bands in the Hofstadter model. Physical Review B, 2014, 90, .	1.1	35
63	Response function of the fractional quantized Hall state on a sphere. I. Fermion Chern-Simons theory. Physical Review B, 1994, 50, 1807-1822.	1.1	34
64	The mobility of electrons in simple insulating fluids as a percolation problem. Journal of Chemical Physics, 1991, 94, 7360-7375.	1.2	33
65	Oscillating Sign of Drag in High Landau Levels. Physical Review Letters, 2001, 87, 106803.	2.9	32
66	Nonlinear dynamics of a dense two-dimensional dipolar exciton gas. Physical Review B, 2006, 73, .	1.1	31
67	Phase transitions in topological lattice models via topological symmetry breaking. New Journal of Physics, 2012, 14, 015004.	1.2	31
68	Signatures of Fractional Exclusion Statistics in the Spectroscopy of Quantum Hall Droplets. Physical Review Letters, 2015, 114, 106802.	2.9	31
69	Topological Quantum Computing with Only One Mobile Quasiparticle. Physical Review Letters, 2006, 96, 070503.	2.9	30
70	Central charge and quasihole scaling dimensions from model wavefunctions: toward relating Jack wavefunctions to \mathcal{W} -algebras. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 245206.	0.7	30
71	Quantum and transport lifetimes in a tunable low-density AlGaIn/GaN two-dimensional electron gas. Applied Physics Letters, 2004, 85, 5278-5280.	1.5	29
72	Passive correction of quantum logical errors in a driven, dissipative system: A blueprint for an analog quantum code fabric. Physical Review A, 2015, 91, .	1.0	29

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73	Exact solutions of fractional Chern insulators: Interacting particles in the Hofstadter model at finite size. <i>Physical Review B</i> , 2014, 90, .	1.1	28
74	Exciton Band Topology in Spontaneous Quantum Anomalous Hall Insulators: Applications to Twisted Bilayer Graphene. <i>Physical Review Letters</i> , 2021, 126, 137601.	2.9	28
75	Partial Equilibration of the Anti-Pfaffian Edge due to Majorana Disorder. <i>Physical Review Letters</i> , 2020, 124, 126801.	2.9	27
76	Simon and Lee Reply:. <i>Physical Review Letters</i> , 1997, 78, 5029-5029.	2.9	25
77	Telegraph noise and the Fabry-Perot quantum Hall interferometer. <i>Physical Review B</i> , 2012, 85, .	1.1	25
78	Striped states in quantum Hall effect: Deriving a low-energy theory from Hartree-Fock. <i>Physical Review B</i> , 2001, 64, .	1.1	24
79	Impact of Spin-Orbit Coupling on Quantum Hall Nematic Phases. <i>Physical Review Letters</i> , 2007, 98, 206804.	2.9	24
80	Itinerant ferromagnetism in an atom trap. <i>Physical Review B</i> , 2009, 79, .	1.1	23
81	Skyrmions in the Moore-Read State at $\nu = 5/2$. <i>Physical Review Letters</i> , 2010, 104, 086801.	1.1	23
82	Behavior of l-bits near the many-body localization transition. <i>Physical Review B</i> , 2018, 98, .	1.1	23
83	Energetics of Pfaffian-anti-Pfaffian domains. <i>Physical Review B</i> , 2020, 101, .	1.1	23
84	Collective excitations in low-density 2D electron systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2000, 6, 165-168.	1.3	22
85	Switching Noise as a Probe of Statistics in the Fractional Quantum Hall Effect. <i>Physical Review Letters</i> , 2006, 96, 226803.	2.9	22
86	Enhanced Bulk-Edge Coulomb Coupling in Fractional Fabry-Perot Interferometers. <i>Physical Review Letters</i> , 2015, 115, 126807.	2.9	21
87	Random matrix theory of multi-antenna communications: the Ricean channel. <i>Journal of Physics A</i> , 2005, 38, 10859-10872.	1.6	20
88	Topological Quantum Computing with Read-Rezayi States. <i>Physical Review Letters</i> , 2009, 103, 160501.	2.9	20
89	Entanglement spectrum of composite fermion states in real space. <i>Physical Review B</i> , 2013, 88, .	1.1	19
90	Intrachannel four-wave mixing in highly dispersed return-to-zero differential-phase-shift-keyed transmission with a nonsymmetric dispersion map. <i>Optics Letters</i> , 2006, 31, 29.	1.7	18

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91	Focus on topological quantum computation. <i>New Journal of Physics</i> , 2014, 16, 065003.	1.2	18
92	Contrasting lattice geometry dependent versus independent quantities: Ramifications for Berry curvature, energy gaps, and dynamics. <i>Physical Review B</i> , 2020, 102, .	1.1	18
93	Quantum Hall wave functions based on S^3 conformal field theories. <i>Physical Review B</i> , 2010, 81, .	1.1	17
94	Proposal for a quantum Hall pump. <i>Physical Review B</i> , 2000, 61, R16327-R16330.	1.1	16
95	Theory of Activated Transport in Bilayer Quantum Hall Systems. <i>Physical Review Letters</i> , 2008, 101, 046804.	2.9	16
96	Importance of interband transitions for the fractional quantum Hall effect in bilayer graphene. <i>Physical Review B</i> , 2012, 85, .	1.1	16
97	Entanglement subspaces, trial wave functions, and special Hamiltonians in the fractional quantum Hall effect. <i>Physical Review B</i> , 2013, 88, .	1.1	16
98	Space-time geometry of topological phases. <i>Annals of Physics</i> , 2010, 325, 2550-2593.	1.0	15
99	Multiparticle pseudopotentials for multicomponent quantum Hall systems. <i>Physical Review B</i> , 2012, 85, .	1.1	15
100	Classical Dimers on Penrose Tilings. <i>Physical Review X</i> , 2020, 10, .	2.8	15
101	Domain wall competition in the Chern insulating regime of twisted bilayer graphene. <i>Physical Review B</i> , 2021, 104, .	1.1	15
102	Crossover from Conserving to Lossy Transport in Circular Random-Matrix Ensembles. <i>Physical Review Letters</i> , 2006, 96, 136805.	2.9	14
103	Transport in Bilayer Graphene near Charge Neutrality: Which Scattering Mechanisms Are Important?. <i>Physical Review Letters</i> , 2020, 124, 026601.	2.9	14
104	Commensurability effects in large Josephson junctions. <i>Physical Review B</i> , 1995, 51, 6515-6525.	1.1	13
105	Three- and four-body interactions from two-body interactions in spin models: A route to Abelian and non-Abelian fractional Chern insulators. <i>Physical Review B</i> , 2013, 88, .	1.1	13
106	Reply to "Comment on "Interpretation of thermal conductance of the edge". <i>Physical Review B</i> , 2018, 98, .	1.1	13
107	Wave Paired Electron and Hole Composite Fermion Trial State for Quantum Hall Bilayers with s . <i>Physical Review Letters</i> , 2021, 127, 246803.	2.9	13
108	Composite fermions with orbital magnetization. <i>Physical Review B</i> , 1996, 54, R11114-R11117.	1.1	12

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109	Dynamics of the in-plane charge separation front in a two-dimensional electron-hole gas. Physical Review B, 2005, 71, .	1.1	12
110	Effect of Landau Level Mixing on Braiding Statistics. Physical Review Letters, 2008, 100, 116803.	2.9	12
111	Hidden order and flux attachment in symmetry-protected topological phases: A Laughlin-like approach. Physical Review B, 2015, 91, .	1.1	12
112	Trial wave functions for a composite Fermi liquid on a torus. Physical Review B, 2018, 97, .	1.1	12
113	Weak-coupling superconductivity in an anisotropic three-dimensional repulsive Hubbard model. Physical Review B, 2018, 98, .	1.1	12
114	Analysis of trapped quantum degenerate dipolar excitons. Applied Physics Letters, 2006, 89, 152118.	1.5	11
115	Aharonovâ€™Bohm-like oscillations in Fabryâ€™Perot interferometers. New Journal of Physics, 2011, 13, 055007.	1.2	11
116	Exactly solvable lattice models with crossing symmetry. Journal of Physics A: Mathematical and Theoretical, 2013, 46, 105002.	0.7	11
117	Josephson-coupled Moore-Read states. Physical Review B, 2014, 90, .	1.1	11
118	Spontaneous interlayer exciton coherence in quantum Hall bilayers at $\nu=1$ and $\nu=2$: a tutorial. Solid State Communications, 2005, 134, 81-88.	0.9	10
119	Resources required for topological quantum factoring. Physical Review A, 2010, 81, .	1.0	10
120	Phase transitions in three-dimensional topological lattice models with surface anyons. Physical Review B, 2013, 88, .	1.1	10
121	Quantum Boltzmann equation for bilayer graphene. Physical Review B, 2020, 101, .	1.1	10
122	Microscopic Ginzburg-Landau theory and singlet ordering in Sr_2RuO_4 . Physical Review B, 2021, 104, .	1.0	10
123	Capacity of Differential Versus Nondifferential Unitary Spaceâ€™Time Modulation for MIMO Channels. IEEE Transactions on Information Theory, 2006, 52, 3622-3634.	1.5	9
124	A Wilson line picture of the Levinâ€™Wen partition functions. New Journal of Physics, 2011, 13, 065001.	1.2	9
125	Fractional Chern insulators in bands with zero Berry curvature. Physical Review B, 2015, 92, .	1.1	9
126	Driven impurity in an ultracold one-dimensional Bose gas with intermediate interaction strength. Physical Review A, 2016, 93, .	1.0	9

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127	Size constraints on a Majorana beam-splitter interferometer: Majorana coupling and surface-bulk scattering. Physical Review B, 2018, 97, .	1.1	9
128	Approximating observables on eigenstates of large many-body localized systems. Physical Review B, 2019, 99, .	1.1	9
129	Luminescence ring formation in quantum wells—a model with Coulomb interaction. Solid State Communications, 2005, 134, 59-62.	0.9	8
130	Typology for quantum Hall liquids. Physical Review B, 2012, 85, .	1.1	8
131	Transport properties of multilayer graphene. Physical Review B, 2020, 101, .	1.1	8
132	Fundamental limit on “interaction-free” measurements. Physical Review A, 2000, 61, .	1.0	7
133	Quantum Hall edges with hard confinement: Exact solution beyond Luttinger liquid. Physical Review B, 2017, 95, .	1.1	7
134	Effective edge state dynamics in the fractional quantum Hall effect. Physical Review B, 2018, 98, .	1.1	7
135	Theory of the Josephson Junction Laser. Physical Review Letters, 2018, 121, 027004.	2.9	7
136	From anyons to Majoranas. Nature Reviews Physics, 2020, 2, 667-668.	11.9	7
137	Derivative relation for thermopower in the quantum Hall regime. Physical Review B, 1997, 56, R7116-R7119.	1.1	6
138	Hall effect in the perovskite manganites. Physical Review B, 1999, 59, 4746-4751.	1.1	6
139	Vortex lattices in rotating atomic Bose gases with non-local interactions. Solid State Communications, 2006, 140, 61-65.	0.9	6
140	Tunneling current through fractional quantum Hall interferometers. Physical Review B, 2014, 89, .	1.1	6
141	Composite fermion model for entanglement spectrum of fractional quantum Hall states. Physical Review B, 2015, 92, .	1.1	6
142	Conductivity of Paired Composite Fermions. Physical Review Letters, 2003, 91, 046804.	2.9	5
143	Global phase diagram of $\nu=2$ quantum Hall bilayers in tilted magnetic fields. Physical Review B, 2004, 70, .	1.1	5
144	Interaction Effects and Charge Quantization in Single-Particle Quantum Dot Emitters. Physical Review Letters, 2019, 122, 127701.	2.9	5

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145	Moving beyond a simple model of luminescence rings in quantum well structures. Journal of Physics Condensed Matter, 2004, 16, S3621-S3627.	0.7	4
146	Collective modes of $\nu=2$ quantum Hall bilayers in tilted magnetic fields. Physical Review B, 2004, 70, .	1.1	4
147	Mechanism of exciton emission ring pattern in doped quantum wells. Physica Status Solidi A, 2004, 201, 655-660.	1.7	4
148	Correlators of $\nu=1$ superconformal currents. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 055402.	0.7	4
149	Structure of edge-state inner products in the fractional quantum Hall effect. Physical Review B, 2018, 97, .	1.1	4
150	Towards a Fermi liquid theory of the state: magnetized composite fermions. Journal of Physics Condensed Matter, 1996, 8, 10127-10148.	0.7	3
151	Optimizing multiantenna systems with partial channel knowledge. , 2003, , .		3
152	A Sound (and Light) Way to Measure Confined Electrons. Science, 2009, 324, 1022-1023.	6.0	3
153	Trial Wavefunctions for the Goldstone Mode in Quantum Hall Bilayers. Advances in Condensed Matter Physics, 2011, 2011, 1-7.	0.4	3
154	Spin-singlet Gaffnian wave function for fractional quantum Hall systems. Physical Review B, 2013, 87, .	1.1	3
155	Comment on "Elementary formula for the Hall conductivity of interacting systems". Physical Review B, 2014, 89, .	1.1	3
156	Driven quantum dot coupled to a fractional quantum Hall edge. Physical Review B, 2019, 100, .	1.1	3
157	How $SU(2)_4$ Anyons are Z_3 Parafermions. SciPost Physics, 2017, 3, .	1.5	3
158	Entanglement action for the real-space entanglement spectra of chiral Abelian quantum Hall wave functions. Physical Review B, 2021, 104, .	1.1	3
159	QUANTUM COMPUTING WITH NON-ABELIAN QUASIPARTICLES. International Journal of Modern Physics B, 2007, 21, 1372-1378.	1.0	2
160	BRAIDING AND ENTANGLEMENT IN NONABELIAN QUANTUM HALL STATES. International Journal of Modern Physics B, 2009, 23, 2727-2736.	1.0	2
161	Problems with the vortex-boson mapping in 1+1 dimensions. Physical Review B, 1995, 51, 15610-15612.	1.1	1
162	Publisher's Note: Paired composite-fermion wave functions [Phys. Rev. B77, 075319 (2008)]. Physical Review B, 2008, 77, .	1.1	1

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163	Breakdown of ergodicity in quantum systems: from solids to synthetic matter. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20170264.	1.6	1
164	Excitonic fractional quantum Hall hierarchy in moiré heterostructures. Physical Review B, 2022, 105, .	1.1	1
165	Inhomogeneous transport and derivative relations in the quantum Hall regime. Physica B: Condensed Matter, 1998, 256-258, 23-27.	1.3	0
166	THEORY OF SURFACE-ACOUSTIC-WAVE PROPAGATION IN THE $\hat{\nu} = 5/2$ FRACTIONAL QUANTUM HALL STATE. International Journal of Modern Physics B, 2002, 16, 2959-2959.	1.0	0
167	Interlayer correlations versus intralayer correlations in a Quantum Hall bilayer at total filling one. European Physical Journal Special Topics, 2005, 131, 283-284.	0.2	0
168	The Effect of Controllable Optically-Induced Random Anisotropic Disorder On The Magnetotransport In A Two-Dimensional Electron System. AIP Conference Proceedings, 2005, , .	0.3	0
169	The effect of optically-induced random anisotropic disorder on a two-dimensional electron system. Solid State Communications, 2006, 140, 94-99.	0.9	0
170	Skymions in a Half-Filled Second Landau Level. AIP Conference Proceedings, 2011, , .	0.3	0
171	Fractional oscillations. Nature Physics, 2019, 15, 527-528.	6.5	0
172	Wavefunctionology: The Special Structure of Certain Fractional Quantum Hall Wavefunctions. , 2020, , 377-434.		0