

Maciej Lewenstein

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.

652
papers

40,262
citations

99
h-index

183
g-index

729
ext. papers

45,169
ext. citations

4.7
avg, IF

7.46
L-index

#	Paper	IF	Citations
652	Linking topological features of the Hofstadter model to optical diffraction figures. <i>New Journal of Physics</i> , 2022 , 24, 013028	2.9	1
651	Large-N Chern insulators: Lattice field theory and quantum simulation approaches to correlation effects in the quantum anomalous Hall effect. <i>Annals of Physics</i> , 2022 , 439, 168763	2.5	1
650	Topological Quantum Critical Points in the Extended Bose-Hubbard Model.. <i>Physical Review Letters</i> , 2022 , 128, 043402	7.4	0
649	Cold atoms meet lattice gauge theory.. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2022 , 380, 20210064	3	7
648	Quantum heat engines with Carnot efficiency at maximum power. <i>Physical Review Research</i> , 2022 , 4,	3.9	2
647	Phase Diagram of 1+1D Abelian-Higgs Model and Its Critical Point.. <i>Physical Review Letters</i> , 2022 , 128, 090601	7.4	
646	High Photon Number Entangled States and Coherent State Superposition from the Extreme Ultraviolet to the Far Infrared.. <i>Physical Review Letters</i> , 2022 , 128, 123603	7.4	2
645	Effects of electronic correlation on the high harmonic generation in helium: A time-dependent configuration interaction singles vs time-dependent full configuration interaction study.. <i>Journal of Chemical Physics</i> , 2022 , 156, 174106	3.9	1
644	Supersolid-superfluid phase separation in the extended Bose-Hubbard model. <i>Physical Review B</i> , 2021 , 104,	3.3	2
643	Phonon-Induced Pairing in Quantum Dot Quantum Simulator. <i>Nano Letters</i> , 2021 , 21, 9661-9667	11.5	0
642	Objective comparison of methods to decode anomalous diffusion. <i>Nature Communications</i> , 2021 , 12, 6253	17.4	14
641	A systematic construction of Gaussian basis sets for the description of laser field ionization and high-harmonic generation. <i>Journal of Chemical Physics</i> , 2021 , 154, 094111	3.9	6
640	Clustered superfluids in the one-dimensional Bose-Hubbard model with extended correlated hopping. <i>Physical Review B</i> , 2021 , 103,	3.3	1
639	Efficient training of energy-based models via spin-glass control. <i>Machine Learning: Science and Technology</i> , 2021 , 2, 025026	5.1	1
638	Quantum-Optical Spectrometry in Relativistic LaserPlasma Interactions Using the High-Harmonic Generation Process: A Proposal. <i>Photonics</i> , 2021 , 8, 192	2.2	3
637	Principal frequency of an ultrashort laser pulse. <i>Physical Review A</i> , 2021 , 103,	2.6	1
636	Unsupervised machine learning of topological phase transitions from experimental data. <i>Machine Learning: Science and Technology</i> , 2021 , 2, 035037	5.1	7

635	Storage capacity and learning capability of quantum neural networks. <i>Quantum Science and Technology</i> , 2021 , 6, 045002	5.5	0
634	Controlling polarization of attosecond pulses with plasmonic-enhanced bichromatic counter-rotating circularly polarized fields. <i>Physical Review A</i> , 2021 , 103,	2.6	5
633	Manipulating twisted electrons in strong-field ionization. <i>Faraday Discussions</i> , 2021 , 228, 394-412	3.6	1
632	Topological properties of the long-range Kitaev chain with Aubry-Andr�Harper modulation. <i>Physical Review Research</i> , 2021 , 3,	3.9	2
631	Attaining Carnot efficiency with quantum and nanoscale heat engines. <i>Npj Quantum Information</i> , 2021 , 7,	8.6	2
630	Quantum dynamics of a Bose polaron in a d-dimensional Bose-Einstein condensate. <i>Physical Review A</i> , 2021 , 103,	2.6	7
629	Conservation laws for electron vortices in strong-field ionisation. <i>European Physical Journal D</i> , 2021 , 75, 199	1.3	0
628	Inferring Nonlinear Many-Body Bell Inequalities From Average Two-Body Correlations: Systematic Approach for Arbitrary Spin-j Ensembles. <i>PRX Quantum</i> , 2021 , 2,	6.1	2
627	Three-electron correlations in strong laser field ionization. <i>Optics Express</i> , 2021 , 29, 26526-26537	3.3	0
626	Quantum operations in an information theory for fermions. <i>Physical Review A</i> , 2021 , 104,	2.6	2
625	Quantum anomalous Hall phase in synthetic bilayers via twistrionics without a twist. <i>Physical Review B</i> , 2020 , 102,	3.3	2
624	Self-Trapped Polarons and Topological Defects in a Topological Mott Insulator. <i>Physical Review Letters</i> , 2020 , 125, 240601	7.4	2
623	Robust Topological Order in Fermionic Z2 Gauge Theories: From Aharonov-Bohm Instability to Soliton-Induced Deconfinement. <i>Physical Review X</i> , 2020 , 10,	9.1	2
622	Confinement and Lack of Thermalization after Quenches in the Bosonic Schwinger Model. <i>Physical Review Letters</i> , 2020 , 124, 180602	7.4	26
621	Nanoscale phase separation and pseudogap in the hole-doped cuprates from fluctuating Cu-O-Cu bonds. <i>Physical Review B</i> , 2020 , 101,	3.3	2
620	Generation of hybrid maximally entangled states in a one-dimensional quantum walk. <i>Quantum Science and Technology</i> , 2020 , 5, 025002	5.5	8
619	Tensor Network Contractions. <i>Lecture Notes in Physics</i> , 2020 ,	0.8	27
618	Zn solitons in intertwined topological phases. <i>Physical Review B</i> , 2020 , 102,	3.3	5

617	Dynamical Solitons and Boson Fractionalization in Cold-Atom Topological Insulators. <i>Physical Review Letters</i> , 2020 , 125, 265301	7.4	4
616	Bounds on the capacity and power of quantum batteries. <i>Physical Review Research</i> , 2020 , 2,	3.9	32
615	Bulk detection of time-dependent topological transitions in quenched chiral models. <i>Physical Review Research</i> , 2020 , 2,	3.9	7
614	Two-dimensional topological quantum walks in the momentum space of structured light. <i>Optica</i> , 2020 , 7, 108	8.6	22
613	Two-Dimensional Tensor Networks and Contraction Algorithms. <i>Lecture Notes in Physics</i> , 2020 , 63-86	0.8	0
612	Quantum Entanglement Simulation Inspired by Tensor Network. <i>Lecture Notes in Physics</i> , 2020 , 131-146	0.8	0
611	Tensor network compressed sensing with unsupervised machine learning. <i>Physical Review Research</i> , 2020 , 2,	3.9	2
610	Tensor Network Approaches for Higher-Dimensional Quantum Lattice Models. <i>Lecture Notes in Physics</i> , 2020 , 87-97	0.8	0
609	Rotor Jackiw-Rebbi Model: A Cold-Atom Approach to Chiral Symmetry Restoration and Charge Confinement. <i>PRX Quantum</i> , 2020 , 1,	6.1	1
608	Homogenization for Generalized Langevin Equations with Applications to Anomalous Diffusion. <i>Annales Henri Poincare</i> , 2020 , 21, 1813-1871	1.2	4
607	From the Jaynes-Cummings model to non-abelian gauge theories: a guided tour for the quantum engineer. <i>New Journal of Physics</i> , 2020 , 22, 103027	2.9	10
606	Phase detection with neural networks: interpreting the black box. <i>New Journal of Physics</i> , 2020 , 22, 115004	0.9	7
605	The imaginary part of the high-harmonic cutoff. <i>JPhys Photonics</i> , 2020 , 2, 034013	2.5	3
604	Single trajectory characterization via machine learning. <i>New Journal of Physics</i> , 2020 , 22, 013010	2.9	45
603	Circular dichroism in higher-order harmonic generation: Heralding topological phases and transitions in Chern insulators. <i>Physical Review B</i> , 2020 , 102,	3.3	33
602	Unsupervised Phase Discovery with Deep Anomaly Detection. <i>Physical Review Letters</i> , 2020 , 125, 170603	7.4	16
601	Polynomially Filtered Exact Diagonalization Approach to Many-Body Localization. <i>Physical Review Letters</i> , 2020 , 125, 156601	7.4	15
600	Simulating Twistronics without a Twist. <i>Physical Review Letters</i> , 2020 , 125, 030504	7.4	11

599	Simulating lattice gauge theories within quantum technologies. <i>European Physical Journal D</i> , 2020 , 74, 1	1.3	84
598	Fractional Angular Momentum and Anyon Statistics of Impurities in Laughlin Liquids. <i>Physical Review Letters</i> , 2020 , 125, 136801	7.4	3
597	Suppression of individual peaks in two-colour high harmonic generation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020 , 53, 134004	1.3	4
596	Bell Correlations at Ising Quantum Critical Points. <i>Physical Review Letters</i> , 2019 , 123, 170604	7.4	10
595	Heat current control in trapped Bose-Einstein Condensates. <i>New Journal of Physics</i> , 2019 , 21, 083037	2.9	4
594	Bell correlation depth in many-body systems. <i>Physical Review A</i> , 2019 , 100,	2.6	13
593	Optimization of device-independent witnesses of entanglement depth from two-body correlators. <i>Physical Review A</i> , 2019 , 100,	2.6	6
592	Device-Independent Witnesses of Entanglement Depth from Two-Body Correlators. <i>Physical Review Letters</i> , 2019 , 123, 100507	7.4	13
591	Symmetry-breaking topological insulators in the Z2 Bose-Hubbard model. <i>Physical Review B</i> , 2019 , 99,	3.3	30
590	Using Polarons for sub-nK Quantum Nondemolition Thermometry in a Bose-Einstein Condensate. <i>Physical Review Letters</i> , 2019 , 122, 030403	7.4	36
589	Intertwined topological phases induced by emergent symmetry protection. <i>Nature Communications</i> , 2019 , 10, 2694	17.4	22
588	Symphony on strong field approximation. <i>Reports on Progress in Physics</i> , 2019 , 82, 116001	14.4	49
587	Topological time crystals. <i>New Journal of Physics</i> , 2019 , 21, 052003	2.9	25
586	Knotting fractional-order knots with the polarization state of light. <i>Nature Photonics</i> , 2019 , 13, 569-574	33.9	35
585	Conservation of Torus-knot Angular Momentum in High-order Harmonic Generation. <i>Physical Review Letters</i> , 2019 , 122, 203201	7.4	22
584	Efficient quantum simulation for thermodynamics of infinite-size many-body systems in arbitrary dimensions. <i>Physical Review B</i> , 2019 , 99,	3.3	6
583	Quantum Brownian Motion Revisited. <i>SpringerBriefs in Physics</i> , 2019 ,	0.6	6
582	Renormalization group flows for Wilson-Hubbard matter and the topological Hamiltonian. <i>Physical Review B</i> , 2019 , 99,	3.3	13

581	Quantum chaos and entanglement in ergodic and nonergodic systems. <i>Physical Review E</i> , 2019 , 99, 032213	11.5	21
580	Imaging the Renner-Teller effect using laser-induced electron diffraction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 8173-8177	11.5	21
579	Extraction of higher-order nonlinear electronic response in solids using high harmonic generation. <i>Nature Communications</i> , 2019 , 10, 3272	17.4	14
578	Generation of extreme-ultraviolet beams with time-varying orbital angular momentum. <i>Science</i> , 2019 , 364,	33.3	89
577	Beyond-Luttinger-liquid thermodynamics of a one-dimensional Bose gas with repulsive contact interactions. <i>Physical Review Research</i> , 2019 , 1,	3.9	4
576	Two distinguishable impurities in BEC: squeezing and entanglement of two Bose polarons 2019 , 6,		13
575	Reexamination of the decoherence of spin registers. <i>Physical Review A</i> , 2019 , 99,	2.6	10
574	Diffusion Through a Network of Compartments Separated by Partially-Transmitting Boundaries. <i>Frontiers in Physics</i> , 2019 , 7,	3.9	5
573	Perspective on Petahertz Electronics and Attosecond Nanoscopy. <i>ACS Photonics</i> , 2019 , 6, 3057-3069	6.3	19
572	Efficient algorithm to compute the second Chern number in four dimensional systems. <i>Quantum Science and Technology</i> , 2019 , 4, 014009	5.5	4
571	Equilibration time scales in closed many-body quantum systems. <i>New Journal of Physics</i> , 2018 , 20, 033032	9.9	23
570	Bose Polarons at Finite Temperature and Strong Coupling. <i>Physical Review Letters</i> , 2018 , 120, 050405	7.4	46
569	High-order harmonic generation driven by inhomogeneous plasmonics fields spatially bounded: influence on the cut-off law. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 034002	1.7	10
568	Chiral spin currents in a trapped-ion quantum simulator using Floquet engineering. <i>Physical Review A</i> , 2018 , 97,	2.6	3
567	Double-Electron Ionization Driven by Inhomogeneous Fields 2018 , 491-508		
566	Above-threshold ionization in multicenter molecules: The role of the initial state. <i>Physical Review A</i> , 2018 , 97,	2.6	6
565	Controlling the phase diagram of finite spin-1/2 chains by tuning the boundary interactions. <i>Physical Review B</i> , 2018 , 98,	3.3	1
564	Restricted-space ab initio models for double ionization by strong laser pulses. <i>Physical Review A</i> , 2018 , 98,	2.6	10

563	Topological characterization of chiral models through their long time dynamics. <i>New Journal of Physics</i> , 2018 , 20, 013023	2.9	62
562	Optimal decomposition of incoherent qubit channel. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018 , 51, 414002	2	2
561	The quantum technologies roadmap: a European community view. <i>New Journal of Physics</i> , 2018 , 20, 080201	2.9	188
560	Two interacting ultracold molecules in a one-dimensional harmonic trap. <i>Physical Review A</i> , 2018 , 97,	2.6	8
559	Unruh effect for interacting particles with ultracold atoms 2018 , 5,		11
558	On the Small Mass Limit of Quantum Brownian Motion with Inhomogeneous Damping and Diffusion. <i>Journal of Statistical Physics</i> , 2018 , 170, 351-377	1.5	7
557	Thermodynamics from Information. <i>Fundamental Theories of Physics</i> , 2018 , 799-820	0.8	2
556	Entanglement activation from quantum coherence and superposition. <i>Physical Review A</i> , 2018 , 98,	2.6	9
555	Non-Markovian polaron dynamics in a trapped Bose-Einstein condensate. <i>Physical Review A</i> , 2018 , 98,	2.6	25
554	Simultaneous control of harmonic yield and energy cutoff of high-order harmonic generation using seeded plasmonically enhanced fields. <i>Physical Review A</i> , 2018 , 98,	2.6	7
553	Gross-Neveu-Wilson model and correlated symmetry-protected topological phases. <i>Annals of Physics</i> , 2018 , 399, 149-180	2.5	20
552	Relaxation, chaos, and thermalization in a three-mode model of a Bose-Einstein condensate. <i>New Journal of Physics</i> , 2018 , 20, 113039	2.9	18
551	Determination of the spectral variation origin in high-order harmonic generation in noble gases. <i>Physical Review A</i> , 2018 , 98,	2.6	11
550	Control of molecular dissociation by spatially inhomogeneous near fields. <i>Physical Review A</i> , 2018 , 98,	2.6	3
549	Exotic entanglement scaling of Heisenberg antiferromagnet on honeycomb lattice. <i>European Physical Journal B</i> , 2018 , 91, 1	1.2	
548	Strongly Correlated Bosons on a Dynamical Lattice. <i>Physical Review Letters</i> , 2018 , 121, 090402	7.4	28
547	Semiclassical approach to finite-temperature quantum annealing with trapped ions. <i>Physical Review A</i> , 2018 , 97,	2.6	2
546	Nonergodic subdiffusion from transient interactions with heterogeneous partners. <i>Physical Review E</i> , 2017 , 95, 032403	2.4	7

545	Towards Resource Theory of Coherence in Distributed Scenarios. <i>Physical Review X</i> , 2017 , 7,	9.1	52
544	Single-atom edgelike states via quantum interference. <i>Physical Review A</i> , 2017 , 95,	2.6	7
543	Attosecond physics at the nanoscale. <i>Reports on Progress in Physics</i> , 2017 , 80, 054401	14.4	201
542	Efficient perturbation theory to improve the density matrix renormalization group. <i>Physical Review B</i> , 2017 , 95,	3.3	1
541	Cold bosons in optical lattices: a tutorial for exact diagonalization. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017 , 50, 113001	1.3	20
540	Double-electron ionization driven by inhomogeneous fields. <i>Applied Physics B: Lasers and Optics</i> , 2017 , 123, 1	1.9	1
539	Hybrid annealing: Coupling a quantum simulator to a classical computer. <i>Physical Review A</i> , 2017 , 95,	2.6	7
538	Spin-valley dynamics of electrically driven ambipolar carbon-nanotube quantum dots. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 285301	1.8	2
537	Detection of Zak phases and topological invariants in a chiral quantum walk of twisted photons. <i>Nature Communications</i> , 2017 , 8, 15516	17.4	148
536	Loading ultracold gases in topological Floquet bands: the fate of current and center-of-mass responses. <i>2D Materials</i> , 2017 , 4, 024010	5.9	12
535	Synthetic Unruh effect in cold atoms. <i>Physical Review A</i> , 2017 , 95,	2.6	34
534	High-order-harmonic generation in atomic and molecular systems. <i>Physical Review A</i> , 2017 , 95,	2.6	19
533	Quantum optics and frontiers of physics: the third quantum revolution. <i>Physica Scripta</i> , 2017 , 92, 013003	2.6	8
532	Proximity effects in cold atom artificial graphene. <i>2D Materials</i> , 2017 , 4, 015039	5.9	11
531	Exploring Interacting Topological Insulators with Ultracold Atoms: The Synthetic Creutz-Hubbard Model. <i>Physical Review X</i> , 2017 , 7,	9.1	64
530	Above-threshold ionization processes in diatomic molecules driven by strong laser fields. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 032013	0.3	
529	Few-body systems capture many-body physics: Tensor network approach. <i>Physical Review B</i> , 2017 , 96,	3.3	11
528	Optical lattices as a tool to study defect-induced superfluidity. <i>Physical Review A</i> , 2017 , 96,	2.6	4

527	Objectivity in the non-Markovian spin-boson model. <i>Physical Review A</i> , 2017 , 96,	2.6	26
526	Energy as a Detector of Nonlocality of Many-Body Spin Systems. <i>Physical Review X</i> , 2017 , 7,	9.1	19
525	Criticality in two-dimensional quantum systems: Tensor network approach. <i>Physical Review B</i> , 2017 , 95,	3.3	5
524	Wannier-Bloch Approach to Localization in High-Harmonics Generation in Solids. <i>Physical Review X</i> , 2017 , 7,	9.1	55
523	Emergence of a Higher Energy Structure in Strong Field Ionization with Inhomogeneous Electric Fields. <i>Physical Review Letters</i> , 2017 , 119, 053204	7.4	9
522	Logarithmic coherence: Operational interpretation of ℓ_1 -norm coherence. <i>Physical Review A</i> , 2017 , 96,	2.6	28
521	Transient subdiffusion from an Ising environment. <i>Physical Review E</i> , 2017 , 96, 052140	2.4	2
520	Randomness in quantum mechanics: philosophy, physics and technology. <i>Reports on Progress in Physics</i> , 2017 , 80, 124001	14.4	38
519	Toolbox for Abelian lattice gauge theories with synthetic matter. <i>Physical Review A</i> , 2017 , 95,	2.6	24
518	Generalized laws of thermodynamics in the presence of correlations. <i>Nature Communications</i> , 2017 , 8, 2180	17.4	56
517	High-order harmonic generation in polyatomic systems. <i>Journal of Physics: Conference Series</i> , 2017 , 875, 032014	0.3	
516	Phase matching effects in high harmonic generation at the nanometer scale. <i>Optics Express</i> , 2017 , 25, 14974-14985	3.3	7
515	Measuring Chern numbers in Hofstadter strips. <i>SciPost Physics</i> , 2017 , 3,	6.1	14
514	The Separability versus Entanglement Problem 2016 , 127-174		2
513	Topological bound states of a quantum walk with cold atoms. <i>Physical Review A</i> , 2016 , 94,	2.6	18
512	Trace-distance measure of coherence. <i>Physical Review A</i> , 2016 , 93,	2.6	192
511	One-dimensional Bose gas in optical lattices of arbitrary strength. <i>Physical Review A</i> , 2016 , 93,	2.6	21
510	High-order-harmonic generation from Rydberg atoms driven by plasmon-enhanced laser fields. <i>Physical Review A</i> , 2016 , 93,	2.6	23

509	Controlling electron localization in H ₂ ⁺ by intense plasmon-enhanced laser fields. <i>Physical Review A</i> , 2016 , 93,	2.6	41
508	Topological phases of lattice bosons with a dynamical gauge field. <i>Physical Review A</i> , 2016 , 93,	2.6	6
507	Sufficient separability criteria and linear maps. <i>Physical Review A</i> , 2016 , 93,	2.6	11
506	Percolation thresholds for discrete-continuous models with nonuniform probabilities of bond formation. <i>Physical Review E</i> , 2016 , 93, 022127	2.4	
505	Assisted Distillation of Quantum Coherence. <i>Physical Review Letters</i> , 2016 , 116, 070402	7.4	174
504	Hidden String Order in a Hole Superconductor with Extended Correlated Hopping. <i>Physical Review Letters</i> , 2016 , 116, 225303	7.4	12
503	Entanglement and Coherence in Quantum State Merging. <i>Physical Review Letters</i> , 2016 , 116, 240405	7.4	88
502	Asymptotic role of entanglement in quantum metrology. <i>Physical Review A</i> , 2016 , 94,	2.6	17
501	Disorder-induced enhancement and critical scaling of spontaneous magnetization in random-field quantum spin systems. <i>Physical Review B</i> , 2016 , 94,	3.3	4
500	Competing valence bond and symmetry-breaking Mott states of spin-32 fermions on a honeycomb lattice. <i>Physical Review B</i> , 2016 , 93,	3.3	3
499	Lindblad model of quantum Brownian motion. <i>Physical Review A</i> , 2016 , 94,	2.6	11
498	Above-threshold ionization and laser-induced electron diffraction in diatomic molecules. <i>Physical Review A</i> , 2016 , 94,	2.6	15
497	Dual trapped-ion quantum simulators: an alternative route towards exotic quantum magnets. <i>New Journal of Physics</i> , 2016 , 18, 033011	2.9	6
496	Random Bosonic States for Robust Quantum Metrology. <i>Physical Review X</i> , 2016 , 6,	9.1	45
495	Modified spin-wave theory and spin-liquid behavior of cold bosons on an inhomogeneous triangular lattice. <i>Physical Review B</i> , 2016 , 94,	3.3	5
494	Quantum annealing for the number-partitioning problem using a tunable spin glass of ions. <i>Nature Communications</i> , 2016 , 7, 11524	17.4	21
493	Double-electron recombination in high-order-harmonic generation driven by spatially inhomogeneous fields. <i>Physical Review A</i> , 2016 , 94,	2.6	4
492	Weak Ergodicity Breaking of Receptor Motion in Living Cells Stemming from Random Diffusivity. <i>Physical Review X</i> , 2015 , 5,	9.1	87

491	Progress towards a unified approach to entanglement distribution. <i>Physical Review A</i> , 2015 , 92,	2.6	10
490	High-order harmonic generation driven by plasmonic fields: a new route towards the generation of UV and XUV photons?. <i>Journal of Physics: Conference Series</i> , 2015 , 601, 012001	0.3	8
489	Quantum simulation of non-trivial topology. <i>New Journal of Physics</i> , 2015 , 17, 045007	2.9	47
488	Quantum Brownian motion with inhomogeneous damping and diffusion. <i>Physical Review A</i> , 2015 , 91,	2.6	26
487	Nonlocality in many-body quantum systems detected with two-body correlators. <i>Annals of Physics</i> , 2015 , 362, 370-423	2.5	31
486	Terahertz field control of in-plane orbital order in La(0.5)Sr(1.5)MnO4. <i>Nature Communications</i> , 2015 , 6, 8175	17.4	12
485	Synthetic magnetic fluxes and topological order in one-dimensional spin systems. <i>Physical Review A</i> , 2015 , 91,	2.6	28
484	Criticality in the Bose-Hubbard model with three-body repulsion. <i>Physical Review A</i> , 2015 , 92,	2.6	11
483	Crossover between few and many fermions in a harmonic trap. <i>Physical Review A</i> , 2015 , 92,	2.6	30
482	Above-threshold ionization and photoelectron spectra in atomic systems driven by strong laser fields. <i>Physical Review A</i> , 2015 , 92,	2.6	19
481	Numerical studies of light-matter interaction driven by plasmonic fields: The velocity gauge. <i>Physical Review A</i> , 2015 , 92,	2.6	9
480	Many interacting fermions in a one-dimensional harmonic trap: a quantum-chemical treatment. <i>New Journal of Physics</i> , 2015 , 17, 115001	2.9	23
479	High-order harmonic generation driven by plasmonic fields:the velocity gauge. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 092106	0.3	
478	Carrier-wave Rabi flopping signatures in high-order harmonic generation. <i>Journal of Physics: Conference Series</i> , 2015 , 635, 092032	0.3	
477	Non-standard Hubbard models in optical lattices: a review. <i>Reports on Progress in Physics</i> , 2015 , 78, 066001	11.4	191
476	Carrier-wave Rabi-flopping signatures in high-order harmonic generation for alkali atoms. <i>Physical Review Letters</i> , 2015 , 114, 143902	7.4	11
475	Quantum simulation of conductivity plateaux and fractional quantum Hall effect using ultracold atoms. <i>New Journal of Physics</i> , 2015 , 17, 125009	2.9	3
474	ClassSTRONG: Classical simulations of strong field processes. <i>Computer Physics Communications</i> , 2014 , 185, 398-406	4.2	20

473	Giant spin oscillations in an ultracold Fermi sea. <i>Science</i> , 2014 , 343, 157-60	33.3	41
472	Classical spin models with broken symmetry: Random-field-induced order and persistence of spontaneous magnetization in the presence of a random field. <i>Physical Review B</i> , 2014 , 90,	3.3	5
471	Observation of topological structures in photonic quantum walks. <i>Physical Review Letters</i> , 2014 , 112, 120502	7.4	7
470	Translationally invariant multipartite Bell inequalities involving only two-body correlators. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014 , 47, 424024	2	21
469	Splitting a critical spin chain. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2014 , 2014, P090351.9		4
468	Nonergodic subdiffusion from Brownian motion in an inhomogeneous medium. <i>Physical Review Letters</i> , 2014 , 112, 150603	7.4	121
467	Tomography of band insulators from quench dynamics. <i>Physical Review Letters</i> , 2014 , 113, 045303	7.4	76
466	High-order harmonic generation at high laser intensities beyond the tunnel regime. <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	2
465	Coherent XUV generation driven by sharp metal tips photoemission. <i>European Physical Journal D</i> , 2014 , 68, 1	1.3	10
464	Trapped-ion quantum simulation of tunable-range Heisenberg chains. <i>EPJ Quantum Technology</i> , 2014 , 1,	6.9	24
463	Emergent nontrivial lattices for topological insulators. <i>Physical Review A</i> , 2014 , 89,	2.6	6
462	Multiphoton states related via linear optics. <i>Physical Review A</i> , 2014 , 89,	2.6	7
461	Quantum nonlocality. Detecting nonlocality in many-body quantum states. <i>Science</i> , 2014 , 344, 1256-8	33.3	97
460	Harnessing vacuum forces for quantum sensing of graphene motion. <i>Physical Review Letters</i> , 2014 , 112, 223601	7.4	39
459	Bose-Hubbard model with random impurities: Multiband and nonlinear hopping effects. <i>Physical Review A</i> , 2014 , 90,	2.6	3
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