

# Jamal Berakdar

## List of Publications by Year in descending order

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399  
papers

5,926  
citations

101543

36  
h-index

175258

52  
g-index

410  
all docs

410  
docs citations

410  
times ranked

3072  
citing authors

#	ARTICLE	IF	CITATIONS
1	Emergent magnonic singularities in anti parity-time symmetric synthetic antiferromagnets. <i>New Journal of Physics</i> , 2022, 24, 023031.	2.9	7
2	Ultrafast entanglement switching and singlet-triplet transitions control via structured terahertz pulses. <i>New Journal of Physics</i> , 2022, 24, 043016.	2.9	2
3	Nanostructured Spintronic Emitters for Polarization-Textured and Chiral Broadband THz Fields. <i>ACS Photonics</i> , 2022, 9, 1248-1255.	6.6	7
4	Light-Induced Magnetization at the Nanoscale. <i>Physical Review Letters</i> , 2022, 128, 157205.	7.8	9
5	Thickness-dependent slow light gap solitons in three-dimensional coupled photonic crystal waveguides. <i>Optics Letters</i> , 2022, 47, 2794.	3.3	3
6	Vortex Ring and Helical Current Formation in Superconductors Driven by a THz Field-Induced Toroidal Vector Potential. <i>Physica Status Solidi (B): Basic Research</i> , 2022, 259, .	1.5	0
7	Supercurrent Induced by Chiral Coupling in Multiferroic/Superconductor Nanostructures. <i>Nanomaterials</i> , 2021, 11, 184.	4.1	4
8	Quantum teleportation by utilizing helical spin chains for sharing entanglement. <i>Quantum Information Processing</i> , 2021, 20, 1.	2.2	3
9	Enhanced Sensitivity at Magnetic High-Order Exceptional Points and Topological Energy Transfer in Magnonic Planar Waveguides. <i>Physical Review Applied</i> , 2021, 15, .	3.8	23
10	Spin-Resolved Quantum Scars in Confined Spin-Coupled Two-Dimensional Electron Gas. <i>Nanomaterials</i> , 2021, 11, 1258.	4.1	1
11	Spatiotemporal delay in photoionization by polarization-structured laser fields. <i>Physical Review A</i> , 2021, 103, .	2.5	2
12	Photoelectron emission via time and phase-tailored electromagnetic fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2021, 54, 124001.	1.5	1
13	Band-Gap Solitons in Nonlinear Photonic Crystal Waveguides and Their Application for Functional All-Optical Logic Gating. <i>Photonics</i> , 2021, 8, 250.	2.0	6
14	Chiral logic computing with twisted antiferromagnetic magnon modes. <i>Npj Computational Materials</i> , 2021, 7, .	8.7	20
15	Photonic Signatures of Spin-Driven Ferroelectricity in Multiferroic Dielectric Oxides. <i>Physical Review Letters</i> , 2021, 127, 127601.	7.8	4
16	Nanoscale Near-Field Steering of Magnetic Vortices. <i>Physical Review Applied</i> , 2021, 16, .	3.8	5
17	Directional scrambling of quantum information in helical multiferroics. <i>Physical Review B</i> , 2021, 104, .	3.2	1
18	Photoelectric effect with a twist. <i>Nature Photonics</i> , 2020, 14, 554-558.	31.4	39

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19	Local and Non-Local Invasive Measurements on Two Quantum Spins Coupled via Nanomechanical Oscillations. <i>Symmetry</i> , 2020, 12, 1078.	2.2	3
20	Ultrafast coupled charge and spin dynamics in strongly correlated NiO. <i>Nature Communications</i> , 2020, 11, 4095.	12.8	22
21	The optical tweezer of skyrmions. <i>Npj Computational Materials</i> , 2020, 6, .	8.7	21
22	Steering magnonic dynamics and permeability at exceptional points in a parity-time symmetric waveguide. <i>Nature Communications</i> , 2020, 11, 5663.	12.8	27
23	Rotating edge-field driven processing of chiral spin textures in racetrack devices. <i>Scientific Reports</i> , 2020, 10, 20400.	3.3	6
24	Electrons in intense laser fields with local phase, polarization, and skyrmionic textures. <i>Physical Review A</i> , 2020, 102, .	2.5	10
25	Nondestructive ultrafast steering of a magnetic vortex by terahertz pulses. <i>NPG Asia Materials</i> , 2020, 12, .	7.9	10
26	Nanostructures in structured light: Photoinduced spin and orbital electron dynamics. <i>Physical Review B</i> , 2020, 101, .	3.2	8
27	Magnonic Magnetoelectric Coupling in Ferroelectric/Ferromagnetic Composites. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900750.	1.5	1
28	Generation of coherence in an exactly solvable nonlinear nanomechanical system. <i>Physical Review B</i> , 2020, 101, .	3.2	10
29	Stratonovich-Ito integration scheme in ultrafast spin caloritronics. <i>Physical Review B</i> , 2020, 102, .	3.2	3
30	Imaging Momentum-Space Two-Particle Correlations at Surfaces. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900636.	1.5	2
31	Controlled Vortex Formation at Nanostructured Superconductor/Ferromagnetic Junctions. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900709.	1.5	6
32	Generation, electric detection, and orbital-angular momentum tunneling of twisted magnons. <i>Applied Physics Letters</i> , 2020, 116, .	3.3	12
33	Multipolar, polarization-shaped high-order harmonic generation by intense vector beams. <i>Physical Review A</i> , 2020, 101, .	2.5	13
34	Functional all-optical logic gates for true time-domain signal processing in nonlinear photonic crystal waveguides. <i>Optics Express</i> , 2020, 28, 18317.	3.4	20
35	Topological light fields for highly non-linear charge quantum dynamics and high harmonic generation. <i>Optics Express</i> , 2020, 28, 19469.	3.4	8
36	Imprinting photon orbital angular momentum during laser-assisted photoemission from quantum wells. <i>Optics Letters</i> , 2020, 45, 5970.	3.3	2

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37	Full-Wave Formalism for Soliton Propagation in Nonlinear Photonic Crystals. , 2020, , .		0
38	Electric steering of spin excitation in nanostructured synthetic antiferromagnet. Applied Physics Letters, 2020, 117, .	3.3	7
39	Entanglement balance of quantum scattering processes. Physical Review A, 2019, 100, .	2.5	3
40	Electrical writing, deleting, reading, and moving of magnetic skyrmioniums in a racetrack device. Scientific Reports, 2019, 9, 12119.	3.3	70
41	Time-resolved buildup of two-slit-type interference from a single atom. Physical Review A, 2019, 100, .	2.5	2
42	Twisting and tweezing the spin wave: on vortices, skyrmions, helical waves, and the magnonic spiral phase plate. Journal of Optics (United Kingdom), 2019, 21, 124001.	2.2	14
43	Spin-orbit-coupled quantum memory of a double quantum dot. Physical Review B, 2019, 100, .	3.2	11
44	Light absorption and pseudospin density generation in graphene nanoribbons. Physical Review B, 2019, 100, .	3.2	2
45	High-Fidelity Magnonic Gates for Surface Spin Waves. Physical Review Applied, 2019, 12, .	3.8	11
46	Time-resolved buildup of twisted indirect exchange interaction in two-dimensional systems. Physical Review B, 2019, 99, .	3.2	1
47	Stochastic dynamics and pattern formation of geometrically confined skyrmions. Communications Physics, 2019, 2, .	5.3	24
48	Twisted magnon beams carrying orbital angular momentum. Nature Communications, 2019, 10, 2077.	12.8	38
49	Open-Circuit Ultrafast Generation of Nanoscopic Toroidal Moments: The Swift Phase Generator. Advanced Quantum Technologies, 2019, 2, 1800096.	3.9	5
50	Dynamic Double-Slit Experiment in a Single Atom. Physical Review Letters, 2019, 122, 053204.	7.8	9
51	Thermally assisted skyrmion drag in a nonuniform electric field. Physical Review B, 2019, 99, .	3.2	12
52	Magnetoelectric response of quantum structures driven by optical vector beams. Physical Review B, 2019, 99, .	3.2	12
53	Conduction of surface electrons in a topological insulator with spatially random magnetization. Physical Review B, 2019, 100, .	3.2	6
54	Effects of spin-dependent electronic correlations on surface states in topological insulators. Physical Review B, 2019, 100, .	3.2	1

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55	Influence of spin-orbit and spin-Hall effects on the spin-Seebeck current beyond linear response: A Fokker-Planck approach. <i>Physical Review B</i> , 2019, 99, .	3.2	11
56	From Chaos to Many-body Localization: Some Introductory Notes. <i>Acta Physica Polonica A</i> , 2019, 135, 1155-1162.	0.5	1
57	Theory of soliton propagation in nonlinear photonic crystal waveguides. <i>Optics Express</i> , 2019, 27, 29558.	3.4	8
58	Thermoelastic enhancement of the magnonic spin Seebeck effect in thin films and bulk samples. <i>Physical Review B</i> , 2018, 97, .	3.2	10
59	Electric control of emergent magnonic spin current and dynamic multiferroicity in magnetic insulators at finite temperatures. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018, 382, 1100-1107.	2.1	2
60	Thermal emergence of laser-induced spin dynamics for a $\text{Ni}_4$ cluster. <i>Physical Review B</i> , 2018, 97, .	3.2	1
61	All-optical generation and ultrafast tuning of non-linear spin Hall current. <i>Scientific Reports</i> , 2018, 8, 17102.	3.3	6
62	Radiation characteristics of nanoscopic structures driven by perfect optical vortex pulse. <i>Optics Communications</i> , 2018, 427, 390-395.	2.1	1
63	Anomalous Hall and Nernst Effects in 2D Systems: Role of Cubic Rashba Spin-Orbit Coupling. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018, 12, 1800232.	2.4	2
64	Element specific hysteresis of $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ $\text{SrRuO}_3$ (LSMO-SRO) heterostructures. <i>APL Materials</i> , 2018, 6, 076103.	5.1	3
65	Electric field controlled spin waveguide phase shifter in YIG. <i>Journal of Applied Physics</i> , 2018, 124, .	2.5	27
66	Spin active split-ring resonator for THz high harmonic generation. <i>European Physical Journal B</i> , 2018, 91, 1.	1.5	2
67	Charge and spin currents in graphene generated by tailored light with orbital angular momentum. <i>Applied Physics Letters</i> , 2018, 112, 231102.	3.3	7
68	Magnetophononics: Ultrafast spin control through the lattice. <i>Physical Review Materials</i> , 2018, 2, .	2.4	53
69	Electrically driven magnetic antenna based on multiferroic composites. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 095804.	1.8	3
70	Charge and spin dynamics driven by ultrashort extreme broadband pulses: A theory perspective. <i>Physics Reports</i> , 2017, 672, 1-82.	25.6	38
71	Entanglement dynamics of two nitrogen vacancy centers coupled by a nanomechanical resonator. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 055007.	1.5	3
72	Ultrafast optically induced resonant and non-resonant current generation in atoms and nanostructures: role of the photons orbital angular momentum. <i>Journal of Modern Optics</i> , 2017, 64, 1088-1095.	1.3	8

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73	Accelerating, guiding, and sub-wavelength trapping of neutral atoms with tailored optical vortices. <i>Annalen Der Physik</i> , 2017, 529, 1600379.	2.4	6
74	Size-dependent frequency bands in the ferromagnetic resonance of a Fe-nanocube. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 438, 70-75.	2.3	7
75	Conversion of electronic to magnonic spin current at a heavy-metal magnetic-insulator interface. <i>Physical Review B</i> , 2017, 95, .	3.2	10
76	Ultrafast dynamics of indirect exchange interaction and transient spin current generation in a two-dimensional electron gas. <i>Physical Review B</i> , 2017, 95, .	3.2	5
77	Many-body localization phase in a spin-driven chiral multiferroic chain. <i>Physical Review B</i> , 2017, 96, .	3.2	16
78	Functionalizing Fe adatoms on Cu(001) as a nanoelectromechanical system. <i>New Journal of Physics</i> , 2017, 19, 073016.	2.9	3
79	Gate-controlled magnon-assisted switching of magnetization in ferroelectric/ferromagnetic junctions. <i>Physical Review B</i> , 2017, 96, .	3.2	3
80	Ultrafast imprinting of topologically protected magnetic textures via pulsed electrons. <i>Applied Physics Letters</i> , 2017, 111, .	3.3	9
81	Relativistic electron vortex beams in a constant magnetic field. <i>Physical Review A</i> , 2017, 95, .	2.5	14
82	Tunable high harmonic pulses from nanorings swirled by optical vortices. <i>Optics Express</i> , 2017, 25, 27857.	3.4	7
83	Strain and Thermally Induced Magnetic Dynamics and Spin Current in Magnetic Insulators Subject to Transient Optical Grating. <i>Frontiers in Materials</i> , 2017, 4, .	2.4	6
84	Generation of open-circuit spin current on GHz scale in structured Pt/YIG by electric fields. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 495005.	2.8	3
85	Magnetism of a four-center transition-metal cluster revisited. <i>Physical Review B</i> , 2017, 96, .	3.2	9
86	10.1063/1.4991521.1. , 2017, , .		0
87	Centrifugal photovoltaic and photogalvanic effects driven by structured light. <i>Scientific Reports</i> , 2016, 6, 21475.	3.3	28
88	Giant spin-orbit torque and spin current generation in carriers at oxide interfaces. <i>New Journal of Physics</i> , 2016, 18, 093034.	2.9	4
89	Energy-loss spectroscopy of $C_{60}$ fullerenes with twisted electrons: Influence of orbital-angular-momentum transfer on plasmon generation. <i>Physical Review A</i> , 2016, 94, .	2.5	9
90	Efficient thermal energy harvesting using nanoscale magnetoelectric heterostructures. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	7

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91	Femtosecond dynamics of correlated many-body states in C <sub>60</sub> fullerenes. <i>New Journal of Physics</i> , 2016, 18, 113055.	2.9	10
92	Pulse and quench induced dynamical phase transition in a chiral multiferroic spin chain. <i>Physical Review B</i> , 2016, 94, .	3.2	28
93	Optomagnetism and ultrafast spintronics via optical vortices. , 2016, , .		1
94	Thermally induced magnonic spin current, thermomagnonic torques, and domain-wall dynamics in the presence of Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , 2016, 94, .	3.2	13
95	Topological insulator in a helicoidal magnetization field. <i>Physical Review B</i> , 2016, 94, .	3.2	3
96	Superadiabatic quantum heat engine with a multiferroic working medium. <i>Physical Review E</i> , 2016, 94, 032116.	2.1	34
97	Discerning on a sub-optical-wavelength the attosecond time delays in electron emission from magnetic sublevels by optical vortices. <i>Physical Review A</i> , 2016, 94, .	2.5	15
98	Time-dependent many-body treatment of electron-boson dynamics: Application to plasmon-accompanied photoemission. <i>Physical Review B</i> , 2016, 93, .	3.2	37
99	Kinetics of nanosize ferroelectrics. <i>Physical Review B</i> , 2016, 94, .	3.2	3
100	Positiveâ€“Negative Birefringence in Multiferroic Layered Metasurfaces. <i>Nano Letters</i> , 2016, 16, 7290-7294.	9.1	19
101	Elastic versus inelastic spin-polarized electron scattering from a ferromagnetic surface. <i>Physical Review B</i> , 2016, 94, .	3.2	3
102	Electron pair escape from fullerene cage via collective modes. <i>Scientific Reports</i> , 2016, 6, 24396.	3.3	14
103	Swift thermal steering of domain walls in ferromagnetic MnBi stripes. <i>Scientific Reports</i> , 2016, 6, 24411.	3.3	10
104	Ultrafast transient dynamics in composite multiferroics. <i>New Journal of Physics</i> , 2016, 18, 023002.	2.9	7
105	Optical vortex driven charge current loop and optomagnetism in fullerenes. <i>Carbon</i> , 2016, 99, 439-443.	10.3	31
106	Disentangling multipole contributions to collective excitations in fullerenes. <i>Physical Review A</i> , 2015, 92, .	2.5	10
107	Propensity for distinguishing two free electrons with equal energies in electron-impact ionization of helium. <i>Physical Review A</i> , 2015, 92, .	2.5	17
108	Electromagnetically controlled multiferroic thermal diode. <i>Physical Review B</i> , 2015, 92, .	3.2	17

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109	Single- or double-electron emission within the Keldysh nonequilibrium Green's function and Feshbach projection operator techniques. <i>Physical Review B</i> , 2015, 91, .	3.2	19
110	Ferroelectric control of anisotropic damping in multiferroic tunnel junctions. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	2
111	Spectral characteristics of time resolved magnonic spin Seebeck effect. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	24
112	Electric tuning of magnetization dynamics and electric field-induced negative magnetic permeability in nanoscale composite multiferroics. <i>Scientific Reports</i> , 2015, 5, 11111.	3.3	46
113	Creation and amplification of electromagnon solitons by electric field in nanostructured multiferroics. <i>Physical Review B</i> , 2015, 91, .	3.2	19
114	Landauâ€™Zener tunneling in multiferroic composites. <i>New Journal of Physics</i> , 2015, 17, 013030.	2.9	4
115	Angular resolved time delay in photoemission. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 025602.	1.5	36
116	Influence of dipole-dipole interactions on the angular dependence of ferromagnetic resonance spectra in arrays of Fe/FexOy core/shell nanocubes. <i>European Physical Journal B</i> , 2015, 88, 1.	1.5	6
117	Electric-field control of electromagnon propagation and spin-wave injection in a spiral multiferroic/ferromagnet composite. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	5
118	Magnon-driven longitudinal spin Seebeck effect in $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0041.gif" overflow="scroll" \rangle \langle \text{mml:mi} \rangle F \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle   \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0042.gif" overflow="scroll" \rangle \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle   \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle F \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle   \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ structures: Role of asymmetric in-plane magnetic anisotropy. <i>Journal of Magnetism and Magnetic Materials</i>	2.3	10
119	Chargeless spin current for switching and coupling of domain walls in magnetic nanowires. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 367-371.	2.1	1
120	Strain Designed Magnetic Properties of III-V Magnetic Semiconductors. <i>Acta Physica Polonica A</i> , 2015, 128, 219-221.	0.5	3
121	Strain Designed Magnetic Properties of III-V Magnetic Semiconductors. <i>Acta Physica Polonica A</i> , 2015, 128, 218-221.	0.5	0
122	Finite-size effects on the magnetoelectric coupling in a ferroelectric/ferromagnetic structure revealed by ferromagnetic resonance. <i>EPJ Web of Conferences</i> , 2014, 75, 09001.	0.3	1
123	Angular dependence of ferromagnetic resonance as indicator of the nature of magnetoelectric coupling in ferromagnetic-ferroelectric heterostructures. <i>Physical Review B</i> , 2014, 90, .	3.2	8
124	Three-level spin system under decoherence-minimizing driving fields: Application to nitrogen-vacancy spin dynamics. <i>Physical Review A</i> , 2014, 90, .	2.5	22
125	Quantum Otto heat engine based on a multiferroic chain working substance. <i>New Journal of Physics</i> , 2014, 16, 063018.	2.9	55
126	Generation and coherent control of pure spin currents via terahertz pulses. <i>Applied Physics Letters</i> , 2014, 104, 162409.	3.3	2



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127	Spin-dependent Otto quantum heat engine based on a molecular substance. Physical Review B, 2014, 90, .	3.2	32
128	Helical multiferroics for electric field controlled quantum information processing. Physical Review B, 2014, 89, .	3.2	25
129	Accessing electronic correlations by half-cycle pulses and time-resolved spectroscopy. Physical Review A, 2014, 90, .	2.5	10
130	Dipole–Dipole Interaction in Arrays of Fe/Fe <sub>x</sub> O <sub>y</sub> Core/Shell Nanocubes Probed by Ferromagnetic Resonance. IEEE Transactions on Magnetics, 2014, 50, 1-9.	2.1	6
131	Magnetic fluctuations in topological insulators with ordered magnetic adatoms: Cr on Bi <sub>2</sub> Se <sub>3</sub> from first principles. Physical Review B, 2014, 89, .	3.2	19
132	Nonlinear magneto-optical response to light carrying orbital angular momentum. Journal of Optics (United Kingdom), 2014, 16, 125201.	2.2	7
133	Coercivity reduction in a two-dimensional array of nano-particles. European Physical Journal B, 2014, 87, 1.	1.5	2
134	Nuclear-wave-packet dynamics mapped out by two-center interference in the HeH <sub>2</sub> <sup>+</sup> molecule. Physical Review A, 2014, 89, .	2.5	3
135	Longitudinal spin current induced by a temperature gradient in a ferromagnetic insulator. Physical Review B, 2014, 90, .	3.2	27
136	Mechanism of interfacial magnetoelectric coupling in composite multiferroics. Physical Review B, 2014, 90, .	3.2	58
137	On the superparamagnetic size limit of nanoparticles on a ferroelectric substrate. Journal Physics D: Applied Physics, 2014, 47, 155302.	2.8	9
138	Dynamics of the polarization of a pinned domain wall in a magnetic nanowire. Physica Status Solidi (B): Basic Research, 2014, 251, 235-238.	1.5	1
139	(e,2e) and (i <sup>3</sup> ,2e) experiments on C <sub>60</sub> . Journal of Physics: Conference Series, 2014, 488, 022018.	0.4	0
140	Fokker-Planck approach to the theory of the magnon-driven spin Seebeck effect. Physical Review B, 2013, 88, .	3.2	32
141	Dynamics of Localized Modes in a Composite Multiferroic Chain. Physical Review Letters, 2013, 111, 117202.	7.8	29
142	Thermally activated in-plane magnetization rotation induced by spin torque. Journal of Applied Physics, 2013, 114, 123906.	2.5	2
143	Tunable anisotropic magnetoelectric effect in helimagnetic tunnel junctions with interface Rashba spin-orbit interaction. Applied Physics Letters, 2013, 103, .	3.3	4
144	Magnetoelectric coupling in a ferroelectric/ferromagnetic chain revealed by ferromagnetic resonance. Journal of Applied Physics, 2013, 113, .	2.5	18

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145	Local Ionization Dynamics Traced by Photoassisted Scanning Tunneling Microscopy: A Theoretical Approach. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1131-1135.	4.6	3
146	Initial stage of quasiparticle decay in fermionic systems. <i>Physical Review B</i> , 2013, 87, .	3.2	9
147	THEORETICAL PROPOSAL FOR THE DYNAMICAL CONTROL OF THE NONLINEAR OPTICAL RESPONSE FREQUENCY. <i>Fluctuation and Noise Letters</i> , 2013, 12, 1350003.	1.5	1
148	Electron repulsion integrals for self-energy calculations. <i>Computer Physics Communications</i> , 2013, 184, 387-395.	7.5	4
149	Entanglement between nitrogen vacancy spins in diamond controlled by a nanomechanical resonator. <i>Physical Review B</i> , 2013, 88, .	3.2	29
150	Anomalous Nernst effect in strained graphene coupled to a substrate inducing a time-reversal symmetry breaking. <i>New Journal of Physics</i> , 2013, 15, 073028.	2.9	8
151	Reply to "Comment on "Time-dependent magnetotransport in a driven graphene spin valve". <i>Physical Review B</i> , 2013, 87, .	3.2	0
152	Time evolution of excitations in normal Fermi liquids. <i>Physical Review B</i> , 2013, 87, .	3.2	8
153	A theoretical analysis of the spin dynamics of magnetic adatoms traced by time-resolved scanning tunneling spectroscopy. <i>New Journal of Physics</i> , 2012, 14, 043027.	2.9	6
154	Reflection and transmission of twisted light at phase conjugating interfaces. <i>Optics Express</i> , 2012, 20, 1301.	3.4	7
155	Photovoltaic effect of light carrying orbital angular momentum on a semiconducting stripe. <i>Optics Express</i> , 2012, 20, 27792.	3.4	15
156	Influence of magnetoelectric coupling on electric field induced magnetization reversal in a composite unstrained multiferroic chain. <i>Physical Review B</i> , 2012, 85, .	3.2	24
157	Nonlinear Anomalous Hall Effect and Negative Magnetoresistance in a System with Random Rashba Field. <i>Physical Review Letters</i> , 2012, 109, 206601.	7.8	15
158	Negative differential magnetoresistance in ferromagnetic wires with domain walls. <i>Physical Review B</i> , 2012, 86, .	3.2	2
159	Plasmon-assisted electron-electron collisions at metallic surfaces. <i>Physical Review A</i> , 2012, 85, .	2.5	8
160	Electron pair emission from a highly correlated material. <i>Physical Review B</i> , 2012, 86, .	3.2	13
161	Piezoelectric control of the magnetic anisotropy via interface strain coupling in a composite multiferroic structure. <i>Europhysics Letters</i> , 2012, 99, 17004.	2.0	19
162	(e,2e) experiments on C60. <i>Journal of Physics: Conference Series</i> , 2012, 388, 052059.	0.4	0

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163	Fast computations of the dielectric response of systems with spherical or axial symmetry. <i>Physical Review B</i> , 2012, 85, .	3.2	8
164	Attosecond tracking of light absorption and refraction in fullerenes. <i>Physical Review A</i> , 2012, 86, .	2.5	18
165	Charge-current generation in atomic systems induced by optical vortices. <i>Physical Review A</i> , 2012, 86, .	2.5	37
166	Semi-classical approximation for second-harmonic generation in nanoparticles. <i>New Journal of Physics</i> , 2012, 14, 093044.	2.9	4
167	Electric Field Effects on the Thermodynamics of Multiferroic Chains. <i>Journal of Superconductivity and Novel Magnetism</i> , 2012, 25, 2679-2681.	1.8	4
168	Steering Magnetization with Electric Fields in a Composite Multi-Ferroic Chain. <i>Ferroelectrics</i> , 2012, 428, 109-115.	0.6	5
169	Traces of the evolution from Mott insulator to a band insulator in the pair excitation spectra. <i>European Physical Journal B</i> , 2012, 85, 1.	1.5	3
170	Effects of non-local spin fluctuations in the orbital-selective Mott transition. <i>European Physical Journal B</i> , 2012, 85, 1.	1.5	1
171	Chaotic spin-dependent electron dynamics in a field-driven double dot potential. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 377, 69-72.	2.1	2
172	Spin-orbital phase synchronization in the magnetic field-driven electron dynamics in a double-well potential. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 255302.	1.8	0
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