

# Dmitry Budker

## 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.

368  
papers

13,977  
citations

55  
h-index

106  
g-index

421  
ext. papers

16,933  
ext. citations

5.6  
avg, IF

6.66  
L-index

#	Paper	IF	Citations
368	Response of atomic spin-based sensors to magnetic and nonmagnetic perturbations.. <i>Scientific Reports</i> , <b>2022</b> , 12, 324	4.9	1
367	Precision Determination of Isotope Shifts in Ytterbium and Implications for New Physics.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 073001	7.4	1
366	Infrasonic, Acoustic and Seismic Waves Produced by the Axion Quark Nuggets. <i>Symmetry</i> , <b>2022</b> , 14, 459	2.7	2
365	Millicharged Dark Matter Detection with Ion Traps. <i>PRX Quantum</i> , <b>2022</b> , 3,	6.1	2
364	Physics Opportunities with the Gamma Factory. <i>Annalen Der Physik</i> , <b>2022</b> , 534, 2200004	2.6	1
363	Deep neural networks to recover unknown physical parameters from oscillating time series.. <i>PLoS ONE</i> , <b>2022</b> , 17, e0268439	3.7	1
362	Do cities have a unique magnetic pulse?. <i>Journal of Applied Physics</i> , <b>2022</b> , 131, 204902	2.5	
361	Stochastic fluctuations of bosonic dark matter.. <i>Nature Communications</i> , <b>2021</b> , 12, 7321	17.4	5
360	Search for topological defect dark matter with a global network of optical magnetometers.. <i>Nature Physics</i> , <b>2021</b> , 17, 1396-1401	16.2	6
359	Search for exotic spin-dependent interactions with a spin-based amplifier. <i>Science Advances</i> , <b>2021</b> , 7, eabi9535	14.3	2
358	Demonstration of diamond nuclear spin gyroscope. <i>Science Advances</i> , <b>2021</b> , 7, eabl3840	14.3	3
357	Stand-Off Magnetometry with Directional Emission from Sodium Vapors. <i>Physical Review Letters</i> , <b>2021</b> , 127, 173605	7.4	0
356	Battery Characterization via Eddy-Current Imaging with Nitrogen-Vacancy Centers in Diamond. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 3069	2.6	7
355	Rapid hyperpolarization and purification of the metabolite fumarate in aqueous solution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	21
354	Correlation of high-field and zero- to ultralow-field NMR properties using 2D spectroscopy. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 144201	3.9	1
353	Probing fast oscillating scalar dark matter with atoms and molecules. <i>Quantum Science and Technology</i> , <b>2021</b> , 6, 034001	5.5	2
352	Search for Axionlike Dark Matter Using Solid-State Nuclear Magnetic Resonance. <i>Physical Review Letters</i> , <b>2021</b> , 126, 141802	7.4	9

351	Intensity-correlated spiking of infrared and ultraviolet emission from sodium vapors. <i>Optics Letters</i> , <b>2021</b> , 46, 2131-2134	3	2
350	Cross-relaxation studies with optically detected magnetic resonances in nitrogen-vacancy centers in diamond in external magnetic field. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	1
349	Resonance photoproduction of pionic atoms at the proposed Gamma Factory. <i>Physical Review C</i> , <b>2021</b> , 103,	2.7	3
348	Towards large-scale steady-state enhanced nuclear magnetization with in situ detection. <i>Magnetic Resonance in Chemistry</i> , <b>2021</b> , 59, 1208-1215	2.1	1
347	Photochemically Induced Dynamic Nuclear Polarization of Heteronuclear Singlet Order. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 4686-4691	6.4	0
346	Dark matter searches using accelerometer-based networks. <i>Quantum Science and Technology</i> , <b>2021</b> , 6, 034004	5.5	2
345	Magnetic sensing at zero field with a single nitrogen-vacancy center. <i>Quantum Science and Technology</i> , <b>2021</b> , 6, 034006	5.5	2
344	Quantum sensitivity limits of nuclear magnetic resonance experiments searching for new fundamental physics. <i>Quantum Science and Technology</i> , <b>2021</b> , 6, 034007	5.5	2
343	Fundamentals of photoelectric readout of spin states in diamond. <i>Semiconductors and Semimetals</i> , <b>2021</b> , 105-147	0.6	2
342	Singulett-Kontrast-Magnetresonanztomographie: Freisetzung der Hyperpolarisation durch den Metabolismus**. <i>Angewandte Chemie</i> , <b>2021</b> , 133, 6866-6873	3.6	3
341	Singlet-Contrast Magnetic Resonance Imaging: Unlocking Hyperpolarization with Metabolism*. <i>Angewandte Chemie - International Edition</i> , <b>2021</b> , 60, 6791-6798	16.4	15
340	Zero- to Ultralow-Field NMR Spectroscopy of Small Biomolecules. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 3226-3232	3.2	2
339	Action potentials induce biomagnetic fields in carnivorous Venus flytrap plants. <i>Scientific Reports</i> , <b>2021</b> , 11, 1438	4.9	12
338	Photoluminescence at the ground-state level anticrossing of the nitrogen-vacancy center in diamond: A comprehensive study. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	6
337	Lower than low: Perspectives on zero- to ultralow-field nuclear magnetic resonance. <i>Journal of Magnetic Resonance</i> , <b>2021</b> , 323, 106886	3	4
336	Floquet maser. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	10
335	Ferromagnetic gyroscopes for tests of fundamental physics. <i>Quantum Science and Technology</i> , <b>2021</b> , 6, 024006	5.5	3
334	Gravity Probe Spin: Prospects for measuring general-relativistic precession of intrinsic spin using a ferromagnetic gyroscope. <i>Physical Review D</i> , <b>2021</b> , 103,	4.9	6

333	Imaging Topological Spin Structures Using Light-Polarization and Magnetic Microscopy. <i>Physical Review Applied</i> , <b>2021</b> , 15,	4.3	5
332	Quantum technologies and the elephants. <i>Quantum Science and Technology</i> , <b>2021</b> , 6, 040401	5.5	0
331	Surpassing the Energy Resolution Limit with Ferromagnetic Torque Sensors. <i>Physical Review Letters</i> , <b>2021</b> , 127, 070801	7.4	0
330	Optically Enhanced Electric Field Sensing Using Nitrogen-Vacancy Ensembles. <i>Physical Review Applied</i> , <b>2021</b> , 16,	4.3	4
329	Emergent hydrodynamics in a strongly interacting dipolar spin ensemble. <i>Nature</i> , <b>2021</b> , 597, 45-50	50.4	4
328	Rapid parameter estimation of discrete decaying signals using autoencoder networks. <i>Machine Learning: Science and Technology</i> , <b>2021</b> , 2, 045024	5.1	
327	Determination of local defect density in diamond by double electron-electron resonance. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	1
326	Constant-adiabaticity ultralow magnetic field manipulations of parahydrogen-induced polarization: application to an AA'X spin system. <i>Physical Chemistry Chemical Physics</i> , <b>2021</b> , 23, 7125-7134	3.6	6
325	Sensitive magnetometry in challenging environments. <i>AVS Quantum Science</i> , <b>2020</b> , 2, 044702	10.3	15
324	Atomic and molecular transitions induced by axions via oscillating nuclear moments. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	1
323	Continuous-wave cavity ring-down polarimetry. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 164202	3.9	6
322	Sensitive magnetometry reveals inhomogeneities in charge storage and weak transient internal currents in Li-ion cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 10667-10672	11.5	23
321	A network of superconducting gravimeters as a detector of matter with feeble nongravitational coupling. <i>European Physical Journal D</i> , <b>2020</b> , 74, 1	1.3	4
320	Chemical Reaction Monitoring using Zero-Field Nuclear Magnetic Resonance Enables Study of Heterogeneous Samples in Metal Containers. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 17026-17032	16.4	12
319	Chemical Reaction Monitoring using Zero-Field Nuclear Magnetic Resonance Enables Study of Heterogeneous Samples in Metal Containers. <i>Angewandte Chemie</i> , <b>2020</b> , 132, 17174-17180	3.6	
318	Relaxion stars and their detection via atomic physics. <i>Communications Physics</i> , <b>2020</b> , 3,	5.4	50
317	Development of a recoil ion source providing slow Th ions including <sup>229</sup> (m)Th in a broad charge state distribution. <i>Hyperfine Interactions</i> , <b>2020</b> , 241, 1	0.8	3
316	Analysis method for detecting topological defect dark matter with a global magnetometer network. <i>Physics of the Dark Universe</i> , <b>2020</b> , 28, 100494	4.4	12

315	Microwave-Free Vector Magnetometry with Nitrogen-Vacancy Centers along a Single Axis in Diamond. <i>Physical Review Applied</i> , <b>2020</b> , 13,	4.3	19
314	Robust optical readout and characterization of nuclear spin transitions in nitrogen-vacancy ensembles in diamond. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	5
313	Molecular parity nonconservation in nuclear spin couplings. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	4
312	Frequency chirped continuous-wave sodium laser guide stars: modeling and optimization. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2020</b> , 37, 1208	1.7	4
311	Spiking dynamics of frequency upconverted field generated in continuous-wave excited rubidium vapors. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2020</b> , 37, 2430	1.7	3
310	Overview of the Cosmic Axion Spin Precession Experiment (CASPER). <i>Springer Proceedings in Physics</i> , <b>2020</b> , 105-121	0.2	13
309	Searching for Earth/Solar axion halos. <i>Journal of High Energy Physics</i> , <b>2020</b> , 2020, 1	5.4	3
308	Two-dimensional single- and multiple-quantum correlation spectroscopy in zero-field nuclear magnetic resonance. <i>Journal of Magnetic Resonance</i> , <b>2020</b> , 318, 106781	3	4
307	Atomic Physics Studies at the Gamma Factory at CERN. <i>Annalen Der Physik</i> , <b>2020</b> , 532, 2000204	2.6	14
306	Rapid Online Solid-State Battery Diagnostics with Optically Pumped Magnetometers. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 7864	2.6	2
305	Axion quark nuggets and how a global network can discover them. <i>Physical Review D</i> , <b>2020</b> , 101,	4.9	11
304	Detection of the Lowest-Lying Odd-Parity Atomic Levels in Actinium. <i>Physical Review Letters</i> , <b>2020</b> , 125, 073001	7.4	3
303	Fast Apparent Oscillations of Fundamental Constants. <i>Annalen Der Physik</i> , <b>2020</b> , 532, 1900566	2.6	4
302	Zero- to ultralow-field nuclear magnetic resonance J-spectroscopy with commercial atomic magnetometers. <i>Journal of Magnetic Resonance</i> , <b>2020</b> , 314, 106723	3	20
301	Hyperfine level structure in nitrogen-vacancy centers near the ground-state level anticrossing. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	9
300	Dependence of atomic parity-violation effects on neutron skins and new physics. <i>Physical Review C</i> , <b>2019</b> , 100,	2.7	8
299	Scalar Dark Matter in the Radio-Frequency Band: Atomic-Spectroscopy Search Results. <i>Physical Review Letters</i> , <b>2019</b> , 123, 141102	7.4	20
298	Eddy-Current Imaging with Nitrogen-Vacancy Centers in Diamond. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	16

297	System for control of polarization state of light and generation of light with continuously rotating linear polarization. <i>Review of Scientific Instruments</i> , <b>2019</b> , 90, 013110	1.7	1
296	Magnetic Gradiometer for the Detection of Zero- to Ultralow-Field Nuclear Magnetic Resonance. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	11
295	Constraining Exotic Interactions. <i>Annalen Der Physik</i> , <b>2019</b> , 531, 1800273	2.6	3
294	Search for Axionlike Dark Matter with a Liquid-State Nuclear Spin Comagnetometer. <i>Physical Review Letters</i> , <b>2019</b> , 122, 191302	7.4	47
293	Sawtooth-wave adiabatic-passage slowing of dysprosium. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	7
292	A network of magnetometers for multi-scale urban science and informatics. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , <b>2019</b> , 8, 129-138	1.5	3
291	Polarization transfer via field sweeping in parahydrogen-enhanced nuclear magnetic resonance. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 174202	3.9	32
290	A Hypothetical Effect of the Maxwell-Proca Electromagnetic Stresses on Galaxy Rotation Curves. <i>Astrophysical Journal</i> , <b>2019</b> , 871, 218	4.7	4
289	Dynamics of a Ferromagnetic Particle Levitated over a Superconductor. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	17
288	Catching, trapping and in-situ-identification of thorium ions inside Coulomb crystals of $^{40}\text{Ca}^+$ ions. <i>Hyperfine Interactions</i> , <b>2019</b> , 240, 1	0.8	3
287	Interference-assisted resonant detection of axions. <i>Physics of the Dark Universe</i> , <b>2019</b> , 24, 100272	4.4	5
286	Evidence for degenerate mirrorless lasing in alkali metal vapor: forward beam magneto-optical experiment. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2019</b> , 52, 195003	1.3	1
285	Roadmap on STIRAP applications. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2019</b> , 52, 202001	1.3	54
284	Isotopic variation of parity violation in atomic ytterbium: Description of the measurement method and analysis of systematic effects. <i>Physical Review A</i> , <b>2019</b> , 100,	2.6	1
283	Extreme nuclear magnetic resonance: Zero field, single spins, dark matter. <i>Journal of Magnetic Resonance</i> , <b>2019</b> , 306, 66-68	3	2
282	Zero-field nuclear magnetic resonance of chemically exchanging systems. <i>Nature Communications</i> , <b>2019</b> , 10, 3002	17.4	14
281	Zero-Field Magnetometry Based on Nitrogen-Vacancy Ensembles in Diamond. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	34
280	Wu et al. Reply. <i>Physical Review Letters</i> , <b>2019</b> , 123, 169002	7.4	2

279	Constraints on bosonic dark matter from ultralow-field nuclear magnetic resonance. <i>Science Advances</i> , <b>2019</b> , 5, eaax4539	14.3	35
278	Infrared laser threshold magnetometry with a NV doped diamond intracavity etalon. <i>Optics Express</i> , <b>2019</b> , 27, 1706-1717	3.3	12
277	Polychromatic, continuous-wave mirrorless lasing from monochromatic pumping of cesium vapor. <i>Optics Letters</i> , <b>2019</b> , 44, 3657-3660	3	12
276	Gamma Factory at CERN --- Novel Research Tools Made of Light. <i>Acta Physica Polonica B</i> , <b>2019</b> , 50, 1191	1.9	9
275	Polarization-driven spin precession of mesospheric sodium atoms: publisher's note. <i>Optics Letters</i> , <b>2019</b> , 44, 138	3	1
274	Revisiting spin-dependent forces mediated by new bosons: Potentials in the coordinate-space representation for macroscopic- and atomic-scale experiments. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	29
273	Trapping and sympathetic cooling of single thorium ions for spectroscopy. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	18
272	Noncovalent force spectroscopy using wide-field optical and diamond-based magnetic imaging. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 194502	2.5	3
271	Real-Time Nuclear Magnetic Resonance Detection of Fumarase Activity Using Parahydrogen-Hyperpolarized [1-C]Fumarate. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 20209-20214	16.4	22
270	Direct limits on the interaction of antiprotons with axion-like dark matter. <i>Nature</i> , <b>2019</b> , 575, 310-314	50.4	22
269	Isotopic variation of parity violation in atomic ytterbium. <i>Nature Physics</i> , <b>2019</b> , 15, 120-123	16.2	28
268	Comment on Sensitivity Coefficients to Variation of Fundamental Constants. <i>Annalen Der Physik</i> , <b>2019</b> , 531, 1800254	2.6	6
267	Color Centers in Diamond as Novel Probes of Superconductivity. <i>Journal of Superconductivity and Novel Magnetism</i> , <b>2019</b> , 32, 85-95	1.5	11
266	Nondestructive in-line sub-picomolar detection of magnetic nanoparticles in flowing complex fluids. <i>Scientific Reports</i> , <b>2018</b> , 8, 3491	4.9	16
265	Probing New Long-Range Interactions by Isotope Shift Spectroscopy. <i>Physical Review Letters</i> , <b>2018</b> , 120, 091801	7.4	73
264	Spin ensemble-based AC magnetometry using concatenated dynamical decoupling at low temperatures. <i>Journal of Optics (United Kingdom)</i> , <b>2018</b> , 20, 024008	1.7	5
263	Low-energy Tests of Fundamental Physics. <i>European Review</i> , <b>2018</b> , 26, 82-89	0.3	0
262	Suppression of the Nonlinear Zeeman Effect and Heading Error in Earth-Field-Range Alkali-Vapor Magnetometers. <i>Physical Review Letters</i> , <b>2018</b> , 120, 033202	7.4	23

261	Searching for axion stars and Q-balls with a terrestrial magnetometer network. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	28
260	The cosmic axion spin precession experiment (CASPER): a dark-matter search with nuclear magnetic resonance. <i>Quantum Science and Technology</i> , <b>2018</b> , 3, 014008	5.5	33
259	Spin-lattice relaxation of individual solid-state spins. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	18
258	On the Possibility of Miniature Diamond-Based Magnetometers Using Waveguide Geometries. <i>Micromachines</i> , <b>2018</b> , 9,	3.3	11
257	Nuclear-Spin Comagnetometer Based on a Liquid of Identical Molecules. <i>Physical Review Letters</i> , <b>2018</b> , 121, 023202	7.4	20
256	Lineshape-asymmetry elimination in weak atomic transitions driven by an intense standing wave field. <i>Optics Letters</i> , <b>2018</b> , 43, 2241-2243	3	5
255	Experimental benchmarking of quantum control in zero-field nuclear magnetic resonance. <i>Science Advances</i> , <b>2018</b> , 4, eaar6327	14.3	25
254	Studies towards a directional polychromatic sodium laser guide star <b>2018</b> ,		3
253	Continuous-wave mirrorless lasing at 2.21 $\mu\text{m}$ in sodium vapors. <i>Optics Letters</i> , <b>2018</b> , 43, 5279-5282	3	10
252	Polarization-driven spin precession of mesospheric sodium atoms. <i>Optics Letters</i> , <b>2018</b> , 43, 5825-5828	3	7
251	Application of spin-exchange relaxation-free magnetometry to the Cosmic Axion Spin Precession Experiment. <i>Physics of the Dark Universe</i> , <b>2018</b> , 19, 27-35	4.4	30
250	Resonant detection and production of axions with atoms. <i>International Journal of Modern Physics A</i> , <b>2018</b> , 33, 1844030	1.2	8
249	Coherent axion-photon transformations in the forward scattering on atoms. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	2
248	Imaging the Local Charge Environment of Nitrogen-Vacancy Centers in Diamond. <i>Physical Review Letters</i> , <b>2018</b> , 121, 246402	7.4	54
247	Remote sensing of geomagnetic fields and atomic collisions in the mesosphere. <i>Nature Communications</i> , <b>2018</b> , 9, 3981	17.4	17
246	Quantitative measurements of non-covalent interactions with diamond based magnetic imaging. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 053103	3.4	4
245	Characterization of the global network of optical magnetometers to search for exotic physics (GNOME). <i>Physics of the Dark Universe</i> , <b>2018</b> , 22, 162-180	4.4	26
244	High magnetic fields for fundamental physics. <i>Physics Reports</i> , <b>2018</b> , 765-766, 1-39	27.7	48



243	Wide-Field Imaging of Superconductor Vortices with Electron Spins in Diamond. <i>Physical Review Applied</i> , <b>2018</b> , 10,	4.3	23
242	Constraints on Exotic Spin-Dependent Interactions Between Matter and Antimatter from Antiprotonic Helium Spectroscopy. <i>Physical Review Letters</i> , <b>2018</b> , 120, 183002	7.4	21
241	Search for new physics with atoms and molecules. <i>Reviews of Modern Physics</i> , <b>2018</b> , 90,	40.5	501
240	Optical quenching and recovery of photoconductivity in single-crystal diamond. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 011108	3.4	10
239	Towards improved measurements of parity violation in atomic ytterbium. <i>Hyperfine Interactions</i> , <b>2017</b> , 238, 1	0.8	11
238	Investigation of two-frequency Paul traps for antihydrogen production. <i>Hyperfine Interactions</i> , <b>2017</b> , 238, 1	0.8	10
237	Level anti-crossing magnetometry with color centers in diamond <b>2017</b> ,		8
236	C-Decoupled J-Coupling Spectroscopy Using Two-Dimensional Nuclear Magnetic Resonance at Zero-Field. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 1512-1516	6.4	16
235	Characterization of high-temperature performance of cesium vapor cells with anti-relaxation coating. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 063104	2.5	20
234	Constraints on exotic spin-dependent interactions between electrons from helium fine-structure spectroscopy. <i>Physical Review A</i> , <b>2017</b> , 95,	2.6	33
233	Measuring molecular parity nonconservation using nuclear-magnetic-resonance spectroscopy. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	8
232	Miniature Cavity-Enhanced Diamond Magnetometer. <i>Physical Review Applied</i> , <b>2017</b> , 8,	4.3	45
231	Invited Review Article: Instrumentation for nuclear magnetic resonance in zero and ultralow magnetic field. <i>Review of Scientific Instruments</i> , <b>2017</b> , 88, 091101	1.7	58
230	Hybrid optical pumping of K and Rb atoms in a paraffin coated vapor cell. <i>Optics Letters</i> , <b>2017</b> , 42, 4163-4166	3	6
229	A method for measurement of spin-spin couplings with sub-mHz precision using zero- to ultralow-field nuclear magnetic resonance. <i>Journal of Magnetic Resonance</i> , <b>2017</b> , 284, 66-72	3	13
228	Solution nuclear magnetic resonance spectroscopy on a nanostructured diamond chip. <i>Nature Communications</i> , <b>2017</b> , 8, 188	17.4	44
227	Magnetometry with Nitrogen-Vacancy Centers in Diamond. <i>Smart Sensors, Measurement and Instrumentation</i> , <b>2017</b> , 553-576	0.3	15
226	Is light narrowing possible with dense-vapor paraffin coated cells for atomic magnetometers?. <i>AIP Advances</i> , <b>2017</b> , 7, 125224	1.5	5

225	Parametric wave mixing enhanced by velocity-insensitive two-photon excitation in Rb vapor. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2017</b> , 34, 1016	1.7	14
224	Investigation of antirelaxation wall coatings beyond melting temperatures <b>2017</b> ,		1
223	Tailorable dispersion in a four-wave mixing laser. <i>Optics Letters</i> , <b>2017</b> , 42, 2846-2849	3	4
222	Zero- to Ultralow-Field NMR <b>2016</b> , 1395-1410		49
221	Precessing Ferromagnetic Needle Magnetometer. <i>Physical Review Letters</i> , <b>2016</b> , 116, 190801	7.4	27
220	Sodium vapor cell laser guide star experiments for continuous wave model validation <b>2016</b> ,		1
219	Coherent population oscillations with nitrogen-vacancy color centers in diamond. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	13
218	Efficient polarization of high-angular-momentum systems. <i>Physical Review A</i> , <b>2016</b> , 94,	2.6	7
217	Magnetic shielding and exotic spin-dependent interactions. <i>Physical Review D</i> , <b>2016</b> , 94,	4.9	15
216	Transition-Selective Pulses in Zero-Field Nuclear Magnetic Resonance. <i>Journal of Physical Chemistry A</i> , <b>2016</b> , 120, 4343-8	2.8	14
215	Nuclear magnetic resonance at millitesla fields using a zero-field spectrometer. <i>Journal of Magnetic Resonance</i> , <b>2016</b> , 270, 35-39	3	19
214	Improving the coherence properties of solid-state spin ensembles via optimized dynamical decoupling <b>2016</b> ,		1
213	Efficient polarization of high-angular-momentum systems <b>2016</b> ,		1
212	Detection of nanoscale electron spin resonance spectra demonstrated using nitrogen-vacancy centre probes in diamond. <i>Nature Communications</i> , <b>2016</b> , 7, 10211	17.4	65
211	Vector light shift averaging in paraffin-coated alkali vapor cells. <i>Optics Express</i> , <b>2016</b> , 24, 15383-90	3.3	10
210	Comparison between observation and simulation of sodium LGS return flux with a 20W CW laser on Tenerife <b>2016</b> ,		2
209	Search for the Effect of Massive Bodies on Atomic Spectra and Constraints on Yukawa-Type Interactions of Scalar Particles. <i>Physical Review Letters</i> , <b>2016</b> , 117, 271601	7.4	22
208	Eddy current imaging with an atomic radio-frequency magnetometer. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 183507	3.4	39

207	Dichroic atomic vapor laser lock with multi-gigahertz stabilization range. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 063107	1.7	9
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195	A data archive for storing precision measurements. <i>Physics Today</i> , <b>2015</b> , 68, 10-11	0.9	10
194	Optical control of resonant light transmission for an atom-cavity system. <i>Physical Review A</i> , <b>2015</b> , 91,	2.6	9
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39	Self-rotation of resonant elliptically polarized light in collision-free rubidium vapor. <i>Physical Review A</i> , <b>2001</b> , 63,	2.6	67
38	Atomic polarization visualized. <i>American Journal of Physics</i> , <b>2001</b> , 69, 450-454	0.7	39
37	Multichannel conical emission and parametric and nonparametric nonlinear optical processes in ytterbium vapor. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2001</b> , 18, 639	1.7	8
36	Progress towards fundamental symmetry tests with nonlinear optical rotation. <i>AIP Conference Proceedings</i> , <b>2001</b> ,	0	4
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34	Obtaining frequency markers of variable separation with a spherical mirror Fabry-Perot interferometer. <i>Review of Scientific Instruments</i> , <b>2000</b> , 71, 2984-2987	1.7	7
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28	Collisional perturbation of states in atomic ytterbium by helium and neon. <i>Physical Review A</i> , <b>1999</b> , 60, 1103-1112	2.6	12

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16	Photoionization and photodissociation properties of Tl <sub>2</sub> observed in a hypersonic beam. <i>Chemical Physics Letters</i> , <b>1994</b> , 229, 35-39	2.5	2
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