

Sergei G Ovchinnikov

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.

467 papers	3,829 citations	27 h-index	41 g-index
498 ext. papers	4,193 ext. citations	1.8 avg, IF	5.48 L-index

#	Paper	IF	Citations
467	Exchange interaction between the high spin Co ³⁺ states in LaCoO ₃ . <i>Computational Materials Science</i> , 2022 , 204, 111134	3.2	
466	Quench dynamics and defects formation in the Ising chain in a transverse magnetic field. <i>European Physical Journal B</i> , 2022 , 95, 1	1.2	
465	Enhanced s _z -wave component of the superconducting gap in overdoped HTSC cuprates with orthorhombic distortion. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2022 , 128226 ^{2,3}		
464	The effect of the composition and pressure on the phase stability and electronic, magnetic, and elastic properties of MAX (M = Mn, Fe; A = Al, Ga, Si, Ge; X = C, N) phases. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 26376-26384	3.6	0
463	Role of Interfaces in the Permittivity Tensor of Thin Layers of a Ferromagnetic Metal. <i>JETP Letters</i> , 2021 , 114, 163-165	1.2	0
462	Electronic Properties of NiO at Ultrahigh Pressure. <i>Journal of Experimental and Theoretical Physics</i> , 2021 , 133, 374-381	1	0
461	Spin state crossover in Co ₃ BO ₅ . <i>Physical Review B</i> , 2021 , 103,	3.3	4
460	Light-Induced Ultrafast Dynamics of Spin Crossovers under High Pressure. <i>Journal of Experimental and Theoretical Physics</i> , 2021 , 132, 399-415	1	1
459	Synthesis, Mass Spectroscopy Detection, and Density Functional Theory Investigations of the Gd Endohedral Complexes of C ₈₂ Fullerenols. <i>Computation</i> , 2021 , 9, 58	2.2	3
458	Analytical calculation of dielectric permittivity tensor from magneto-optical ellipsometry measurements. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2021 , 54, 295201	2	
457	Optical and magneto-optical properties of epitaxial Mn ₂ GaC MAX phase thin film. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 528, 167803	2.8	2
456	Electronic and magnetic states of Fe ions in CoFeBO. <i>Dalton Transactions</i> , 2021 , 50, 9735-9745	4.3	0
455	Spin-Flop Transition in Co ₂ B ₂ O ₅ Pyroborate. <i>JETP Letters</i> , 2021 , 114, 92-97	1.2	0
454	Co ₅ /3Nb ₁ /3BO ₄ : A new cobalt oxyborate with a complex magnetic structure. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 534, 168056	2.8	1
453	Why the Magnetite@Gold Core@Shell Nanoparticles Are Not Quite Good and How to Improve Them. <i>Physics of the Solid State</i> , 2021 , 63, 1536-1540	0.8	1
452	Magneto-Optical Parameter Q for Structures with Uniaxial Optical Anisotropy. <i>Journal of Experimental and Theoretical Physics</i> , 2021 , 133, 581-590	1	
451	Ultrafast Quantum Relaxation Dynamics of Magnetically Ordered Systems with Spin Crossover in an Excited State under a Sudden Perturbation. <i>JETP Letters</i> , 2020 , 112, 250-256	1.2	4

450	Tailoring the preferable orientation relationship and shape of FeSi ₂ nanocrystals on Si(001): the impact of gold and the Si/Fe flux ratio, and the origin of FeSi boundaries. <i>CrystEngComm</i> , 2020 , 22, 3943-3955	3.3	0
449	Polaron transformations in the realistic model of the strongly correlated electron system. <i>Physical Review B</i> , 2020 , 101,	3.3	3
448	Effect of Multiplicity Fluctuation in Cobalt Ions on Crystal Structure, Magnetic and Electrical Properties of NdCoO and SmCoO. <i>Molecules</i> , 2020 , 25,	4.8	2
447	Cation spin and superexchange interaction in oxide materials below and above spin crossover under high pressure. <i>Physical Review B</i> , 2020 , 101,	3.3	4
446	Structural, magnetic, electronic, and dilatation properties of the ordered solid solutions Ln _{0.2} Sr _{0.8} CoO _{3-δ} (Ln = Sm, Gd, Dy) with the same oxygen nonstoichiometry index δ <i>Journal of Alloys and Compounds</i> , 2020 , 830, 154629	5.7	2
445	Doping and temperature evolution of pseudogap and spin-spin correlations in the two-dimensional Hubbard model. <i>Physical Review B</i> , 2020 , 101,	3.3	4
444	Prediction of orientation relationships and interface structures between FeSi and Si phases. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2020 , 76, 469-482	1.8	2
443	Antiferromagnetism of the cation-ordered warwickite system Mn ₂ -Mg BO ₄ ($x = 0.5, 0.6$ and 0.7). <i>Journal of Magnetism and Magnetic Materials</i> , 2020 , 507, 166820	2.8	2
442	Weak Antiferromagnet Iron Borate FeBO ₃ . Classical Object for Magnetism and the State of the Art. <i>Journal of Experimental and Theoretical Physics</i> , 2020 , 131, 177-188	1	3
441	External electric field effect on electronic properties and charge transfer in CoI ₂ /NiI ₂ spinterface. <i>International Journal of Quantum Chemistry</i> , 2020 , 120, e26092	2.1	1
440	Resonant Pumping of d-d Crystal Field Electronic Transitions as a Mechanism of Ultrafast Optical Control of the Exchange Interactions in Iron Oxides. <i>Physical Review Letters</i> , 2020 , 125, 157201	7.4	11
439	Mechanisms of the Insulator-Metal Transition and Spin Crossover in CoO at High Pressure. <i>JETP Letters</i> , 2020 , 112, 241-245	1.2	1
438	Spin Accumulation in the Fe ₃ Si/n-Si Epitaxial Structure and Related Electric Bias Effect. <i>Technical Physics Letters</i> , 2020 , 46, 665-668	0.7	
437	Fluorescence and photoinduced proton transfer in the protolytic forms of fluorescein: Experimental and computational study. <i>Dyes and Pigments</i> , 2020 , 173, 107851	4.6	12
436	Thermoelectric properties of the SmCoO ₃ and NdCoO ₃ cobalt oxides. <i>Ceramics International</i> , 2020 , 46, 17987-17991	5.1	4
435	Magnetic and structural correlations in the warwickite Mn ₂ OBO ₃ . <i>Low Temperature Physics</i> , 2019 , 45, 1046-1052	0.7	2
434	Weak Ferromagnetism along the Triad Axis and the Basal Anisotropy Caused by the Dzyaloshinskii-Moriya Interaction and the Cubic Electric Field of the FeBO ₃ Crystal. <i>Journal of Experimental and Theoretical Physics</i> , 2019 , 128, 443-449	1	2
433	The role of strong electron correlations in determination of band structure and charge distribution of transition metal dihalide monolayers. <i>Journal of Physics and Chemistry of Solids</i> , 2019 , 134, 324-332	3.9	10

432	Proximity of Ferromagnetic Nickel to Paramagnetic Instability. <i>JETP Letters</i> , 2019 , 109, 276-279	1.2	1
431	Element selective magnetism in Ho _{0.5} Nd _{0.5} Fe ₃ (BO ₃) ₄ single crystal probed with hard X-ray magnetic circular dichroism. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 479, 312-316	2.8	9
430	Study of mixed-valence Mn ₂ BO ₄ using XRD, XPS and XAFS spectroscopies. <i>Physica B: Condensed Matter</i> , 2019 , 560, 228-235	2.8	3
429	Synthesis and photophysical properties of copolyfluorenes for light-emitting applications: Spectroscopic experimental study and theoretical DFT consideration. <i>Polymer</i> , 2019 , 168, 185-198	3.9	4
428	Four steps for revealing and adjusting the 3D structure of aptamers in solution by small-angle X-ray scattering and computer simulation. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 6723-6732	4.4	8
427	Structural, Magnetic, and Thermodynamic Properties of Ordered and Disordered Cobaltite Gd _{0.1} Sr _{0.9} CoO ₃ . <i>Journal of Experimental and Theoretical Physics</i> , 2019 , 128, 630-640	1	3
426	Experimental and Theoretical In Situ Spectral Magneto-Ellipsometry Study of Layered Ferromagnetic Structures. <i>JETP Letters</i> , 2019 , 110, 166-172	1.2	5
425	Magnetism in spin crossover systems: Short-range order and effects beyond the Heisenberg model. <i>Physical Review B</i> , 2019 , 100,	3.3	2
424	Spin-dependent electrical hole extraction from low doped p-Si via the interface states in a Fe ₃ Si/p-Si structure. <i>Semiconductor Science and Technology</i> , 2019 , 34, 035024	1.8	8
423	Exchange Interaction between the Excited States of Magnetic Ions. <i>Physics of Metals and Metallography</i> , 2019 , 120, 1333-1336	1.2	0
422	Magnetic Properties and Spin Crossover in Transition Metal Oxides with d ⁵ Ions at High Pressures. <i>Journal of Experimental and Theoretical Physics</i> , 2019 , 129, 1062-1069	1	2
421	Magnetotransport phenomena and spin accumulation in MIS structures. <i>Journal of Physics: Conference Series</i> , 2019 , 1347, 012006	0.3	1
420	Ferromagnet-antiferromagnet transition in layered perovskites of Sr ₃ YCo ₄ O _{10.5} type. <i>Materials Research Express</i> , 2019 , 6, 026105	1.7	1
419	Effect of CuO ₂ Lattice Strain on the Electronic Structure and Properties of High-T _c Cuprate Family. <i>Journal of Superconductivity and Novel Magnetism</i> , 2019 , 32, 1927-1935	1.5	8
418	Effect of magnetic frustrations on magnetism of the Fe ₃ BO ₅ and Co ₃ BO ₅ ludwigites. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 474, 493-500	2.8	10
417	Thermoelectric properties and stability of the Re _{0.2} Sr _{0.8} CoO ₃ -IRe (Re = Gd, Dy) complex cobalt oxides in the temperature range of 300-800 K. <i>Ceramics International</i> , 2019 , 45, 5553-5558	5.1	4
416	Selective synthesis of higher manganese silicides: a new Mn ₁₇ Si ₃₀ phase, its electronic, transport, and optical properties in comparison with Mn ₄ Si ₇ . <i>Journal of Materials Science</i> , 2018 , 53, 7571-7594	4.3	2
415	Effect of A-site cation ordering on the thermoelectric properties of the complex cobalt oxides Gd _{1-x} Sr _x CoO _{3-δ} (x = 0.8 and 0.9). <i>Ceramics International</i> , 2018 , 44, 10299-10305	5.1	10

414	Low-Temperature Schottky Anomalies and the Magnetic State of the p Electrons of Oxygen in Substituted Gd _{0.4} Sr _{0.6} CoO ₃ Cobaltites. <i>Journal of Experimental and Theoretical Physics</i> , 2018 , 126, 217-223	1	1
413	Magnetic field-driven lateral photovoltaic effect in the Fe/SiO ₂ /p-Si hybrid structure with the Schottky barrier. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2018 , 101, 201-207	3	4
412	Weak ferromagnetism along the third-order axis of the FeBO ₃ crystals caused by Fe ²⁺ impurity ions. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 454, 139-143	2.8	2
411	Influence of the Diagonal and Off-Diagonal Electron-Phonon Interactions on the Formation of Local Polarons and Their Band Structure in Materials with Strong Electron Correlations. <i>Journal of Experimental and Theoretical Physics</i> , 2018 , 126, 683-698	1	2
410	Room Temperature Spin Accumulation Effect in Boron Doped Si Created by Epitaxial Fe ₃ Si/p-Si Schottky Contact. <i>Journal of Surface Investigation</i> , 2018 , 12, 633-637	0.5	4
409	Effect of the Interatomic Exchange Interaction on the Magnetic Phase Transitions in Spin Crossover Systems under High-Pressure. <i>Physics of the Solid State</i> , 2018 , 60, 1177-1179	0.8	1
408	  Gd _{0.5} Sr _{0.5} CoO _{3-s} ,   <i>Journal of Experimental and Theoretical Physics</i> , 2018 , 259-267	1	
407	Fe-induced enhancement of antiferromagnetic spin correlations in Mn ₂ FeBO ₄ . <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 452, 90-99	2.8	4
406	Magneto-transport phenomena in metal/SiO ₂ /n(p)-Si hybrid structures. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 451, 143-158	2.8	5
405	Superexchange Interaction in Magnetic Insulators with Spin Crossover. <i>Journal of Experimental and Theoretical Physics</i> , 2018 , 127, 713-720	1	7
404	Fabrication and DC/AC Characterization of 3-Terminal Ferromagnet/Silicon Spintronics Devices. <i>Semiconductors</i> , 2018 , 52, 1875-1878	0.7	1
403	Growth of Textured AuFe/Fe Hybrid Nanocrystals on Oxidized Silicon Surface. <i>Semiconductors</i> , 2018 , 52, 2073-2077	0.7	
402	Electron Paramagnetic Resonance of Cr ³⁺ Ions in ABO ₃ (A = Sc, In, Ga) Diamagnetic Crystals. <i>Journal of Experimental and Theoretical Physics</i> , 2018 , 127, 1067-1073	1	2
401	Multilayered Ferromagnetic Nanostructures Study: Processing Data from Magneto-Ellipsometry Measurements. <i>Defect and Diffusion Forum</i> , 2018 , 386, 131-136	0.7	2
400	Estimation of the thermal and photochemical stabilities of pheromones. <i>Journal of Molecular Modeling</i> , 2018 , 24, 323	2	
399	Uniaxial and basal plane anisotropy caused by Cr ²⁺ impurity ions in CrBO ₃ crystals. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 123, 389-392	3.9	
398	Pressure-induced metallization of the Mott insulator FeMn _{1-x} S system. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 465, 775-779	2.8	1
397	Extremely high magnetic-field sensitivity of charge transport in the Mn/SiO ₂ /p-Si hybrid structure. <i>AIP Advances</i> , 2017 , 7, 015206	1.5	14

396	In situ magneto-optical ellipsometry data analysis for films growth control. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 440, 196-198	2.8	8
395	Theoretical investigation of magnetic properties in interfaces of magnetic nanoparticles and amorphous carbons. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 432, 102-105	2.8	1
394	Self-consistent mapping: Effect of local environment on formation of magnetic moment in FeSi_2 . <i>Physical Review B</i> , 2017 , 95,	3.3	15
393	Magnetic-field-driven electron transport in ferromagnetic/ insulator/semiconductor hybrid structures. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 440, 140-143	2.8	2
392	Exchange bias in graphitic C/Co composites. <i>Carbon</i> , 2017 , 114, 642-648	10.4	5
391	Si/Fe flux ratio influence on growth and physical properties of polycrystalline FeSi_2 thin films on Si(100) surface. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 440, 144-152	2.8	15
390	Contribution from optically excited many-electron states to the superexchange interaction in Mott-Hubbard insulators. <i>Physical Review B</i> , 2017 , 95,	3.3	11
389	Cooperative phenomena in spin crossover systems. <i>Physical Review B</i> , 2017 , 96,	3.3	8
388	Approach to form planar structures based on epitaxial $\text{Fe}_{1-x}\text{Si}_x$ films grown on Si(111). <i>Thin Solid Films</i> , 2017 , 642, 20-24	2.2	7
387	The stability of the pheromones of xylophagous insects to environmental factors: An evaluation by quantum chemical analysis. <i>Biophysics (Russian Federation)</i> , 2017 , 62, 532-538	0.7	2
386	Magnetic properties of $\text{Co}_{2+2} \text{Co}_{3+1} \text{Fe}_{3+x} \text{BO}_5$ ($x = 0.10$) single crystals with a ludwigite structure. <i>Journal of Experimental and Theoretical Physics</i> , 2017 , 124, 623-627	1	3
385	Effect of Fe-substitution on the structure and magnetism of single crystals $\text{Mn}_{2-x}\text{Fe}_x\text{BO}_4$. <i>Journal of Crystal Growth</i> , 2017 , 475, 239-246	1.6	6
384	Effect of local environment on moment formation in iron silicides. <i>Journal of Alloys and Compounds</i> , 2017 , 695, 1213-1222	5.7	14
383	Development of in situ magneto-ellipsometry for studying correlation between the optical and magneto-optical properties of ferromagnetic thin films. <i>Journal of Physics: Conference Series</i> , 2017 , 903, 012060	0.3	
382	Magnetic and structural phase transitions in systems with spin crossover under pressure. <i>JETP Letters</i> , 2017 , 105, 771-774	1.2	4
381	Magnetic properties, morphology and interfaces of (Fe/Si) nanostructures. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 400, 271-275	2.8	4
380	Thermal properties of rare earth cobalt oxides and of $\text{La}_{1-x}\text{Gd}_x\text{CoO}_3$ solid solutions. <i>JETP Letters</i> , 2016 , 103, 607-612	1.2	6
379	Iron silicide-based ferromagnetic metal/semiconductor nanostructures. <i>Physics of the Solid State</i> , 2016 , 58, 2277-2281	0.8	4

378	Influence of varying magnetic order in an external magnetic field on the electronic structure and Fermi surface within the tJ model. <i>JETP Letters</i> , 2016 , 103, 125-130	1.2	1
377	Electron paramagnetic resonance of Cr^{3+} ions in ABO_3 ($A = \text{Sc, Lu, In}$) diamagnetic crystals. <i>Journal of Experimental and Theoretical Physics</i> , 2016 , 122, 734-737	1	4
376	Effect of canted antiferromagnetic order on the electronic structure in the tJ^* model within the cluster perturbation theory. <i>Journal of Experimental and Theoretical Physics</i> , 2016 , 123, 511-519	1	
375	Action of the atomic and electronic structure of pheromone molecules on the effectiveness of communication in xylophagous insects. <i>Journal of Structural Chemistry</i> , 2016 , 57, 287-293	0.9	2
374	Effect of Gd and Sr Ordering in A Sites of Doped $\text{Gd}_{0.2}\text{Sr}_{0.8}\text{CoO}_3$ Perovskite on Its Structural, Magnetic, and Thermodynamic Properties. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 13443-13449	3.8	14
373	Giant red shift of the absorption spectra due to nonstoichiometry in GdCoO_3 . <i>JETP Letters</i> , 2016 , 103, 161-166	1.2	1
372	Size dependent magnetic and magneto-optical properties of $\text{Ni}_{0.2}\text{Zn}_{0.8}\text{Fe}_2\text{O}_4$ nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2016 , 408, 206-212	2.8	7
371	Transition Between Large and Small Polaron States in the Electronic Structure of HTSC Cuprates. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016 , 29, 1063-1068	1.5	2
370	Growth of FeSi_2 nanocrystals on $\text{Si}(100)$ with Au catalyst. <i>Materials Letters</i> , 2016 , 168, 90-94	3.3	8
369	Single-layer model of reflective nanostructures for magneto- ellipsometry data analysis. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016 , 155, 012030	0.4	3
368	Effect of external pressure on the normal and superconducting properties of high- T_c cuprates. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 486-493	1.3	5
367	Crystal structure and electronic states of Co and Gd ions in a $\text{Gd}_{0.4}\text{Sr}_{0.6}\text{CoO}_{2.85}$ single crystal. <i>JETP Letters</i> , 2016 , 103, 196-200	1.2	10
366	Weak ferromagnetism along the triad axis of FeBO_3 crystals. <i>Physics of the Solid State</i> , 2016 , 58, 1995-1998		3
365	Anomalies of the electronic structure and physical properties of rare-earth cobaltites near spin crossover. <i>JETP Letters</i> , 2016 , 104, 588-600	1.2	5
364	Pressure effect on the energy structure and superexchange interaction in undoped orthorhombic La_2CuO_4 . <i>International Journal of Modern Physics B</i> , 2016 , 30, 1650180	1.1	4
363	Flux growth of MBO_3 ($M = \text{Fe, Ga, In, Sc, Lu}$) single crystals. <i>Journal of Crystal Growth</i> , 2016 , 455, 55-59	1.6	5
362	Ultraviolet fluorescence of coelenteramide and coelenteramide-containing fluorescent proteins. Experimental and theoretical study. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016 , 162, 318-323	6.7	9
361	Coupling of Hubbard fermions with phonons in La_2CuO_4 : A combined study using density-functional theory and the generalized tight-binding method. <i>Journal of Alloys and Compounds</i> , 2015 , 648, 258-264	5.7	1

360	Analysis of optical and magnetooptical spectra of Fe ₅ Si ₃ and Fe ₃ Si magnetic silicides using spectral magnetoellipsometry. <i>Journal of Experimental and Theoretical Physics</i> , 2015 , 120, 886-893	1	11
359	Disorder- and correlation-induced charge carriers localization in oxyborate MgFeBO ₄ , Mg _{0.5} Co _{0.5} FeBO ₄ , CoFeBO ₄ single crystals. <i>Journal of Alloys and Compounds</i> , 2015 , 642, 232-237	5.7	4
358	Spin-glass behavior of warwickite MgFeBO ₄ and CoFeBO ₄ crystals observed by Mössbauer spectroscopy. <i>Journal of Alloys and Compounds</i> , 2015 , 642, 204-209	5.7	9
357	Specific features of insulator-metal transitions under high pressure in crystals with spin crossovers of 3d ions in tetrahedral environment. <i>Journal of Experimental and Theoretical Physics</i> , 2015 , 120, 132-138	1	2
356	First-principles calculations of the equations of state and relative stability of iron carbides at the Earth's core pressures. <i>Russian Geology and Geophysics</i> , 2015 , 56, 164-171	1	9
355	Concentration dependence of the spin gap in solid solutions La _{1-x} Gd _x CoO ₃ . <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 383, 162-165	2.8	8
354	New method for regulating the activity of ABO ₃ perovskite catalysts. <i>Kinetics and Catalysis</i> , 2015 , 56, 640-645	1.5	8
353	Effects of processing parameters on the morphology, structure, and magnetic properties of Cu _{1-x} Fe _x Cr ₂ Se ₄ nanoparticles synthesized with chemical methods. <i>Journal of Alloys and Compounds</i> , 2015 , 650, 887-895	5.7	3
352	Polaronic approach to strongly correlated electron systems with strong electron-phonon interaction. <i>Physical Review B</i> , 2015 , 92,	3.3	8
351	The optically induced and bias-voltage-driven magnetoresistive effect in a silicon-based device. <i>Journal of Surface Investigation</i> , 2015 , 9, 984-994	0.5	4
350	Crystal and local atomic structure of MgFeBO ₄ , Mg _{0.5} Co _{0.5} FeBO ₄ and CoFeBO ₄ : Effects of Co substitution. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 2245-2258	1.3	7
349	Spin crossover and Mott-Hubbard transition under high pressure and high temperature in the low mantle of the Earth. <i>Journal of Physics: Conference Series</i> , 2015 , 653, 012095	0.3	
348	Uniaxial anisotropy and low-temperature antiferromagnetism of Mn ₂ BO ₄ single crystal. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 393, 316-324	2.8	14
347	Spin-glass behavior in single crystals of hetero-metallic magnetic warwickites MgFeBO ₄ , Mg _{0.5} Co _{0.5} FeBO ₄ , and CoFeBO ₄ . <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 392, 114-125	2.8	15
346	Theoretical study of δ -Fe ₄ N and e-Fe _x N iron nitrides at pressures up to 500 GPa. <i>JETP Letters</i> , 2015 , 101, 371-375	1.2	10
345	Estimating conductivity anisotropy of lower mantle from geomagnetic observatory data. <i>Russian Geology and Geophysics</i> , 2015 , 56, 1772-1779	1	1
344	Temperature dependence of the electronic structure of La ₂ CuO ₄ in the multielectron LDA+GTB approach. <i>Journal of Experimental and Theoretical Physics</i> , 2015 , 121, 457-464	1	2
343	Structural and magnetic properties of Fe _{1-x} CoxSe _{1.09} nanoparticles obtained by thermal decomposition. <i>Materials Research Express</i> , 2015 , 2, 126501	1.7	

342	Morphology of the asymmetric iron-silicon interfaces. <i>Journal of Alloys and Compounds</i> , 2015 , 627, 136-145	5.7	5
341	Bias-voltage-controlled ac and dc magnetotransport phenomena in hybrid structures. <i>Journal of Magnetism and Magnetic Materials</i> , 2015 , 383, 69-72	2.8	4
340	Phase transformations of Fe ₃ N-Fe ₄ N iron nitrides at pressures up to 30 GPa studied by in situ X-ray diffractometry. <i>JETP Letters</i> , 2014 , 98, 805-808	1.2	13
339	Initial growth stages of manganese films on the Si(100)2 × 1 surface. <i>Physics of the Solid State</i> , 2014 , 56, 380-384	0.8	5
338	Thermomagnetic behaviour and compositional irreversibility on (Fe/Si) ₃ multilayer films. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 364, 24-33	2.8	5
337	Magnetic anisotropy in Fe films deposited on SiO ₂ /Si(001) and Si(001) substrates. <i>Journal of Magnetism and Magnetic Materials</i> , 2014 , 351, 104-108	2.8	20
336	Exact solution for the thermodynamics of the one-dimensional Hubbard model with infinite repulsion in a magnetic field. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 2014 , 180, 835-849	0.7	9
335	Temperature dependence of the spin state of a Co ³⁺ ion in RCoO ₃ (R = La, Gd) cobaltites. <i>JETP Letters</i> , 2014 , 99, 476-480	1.2	4
334	Study of the structural and magnetic characteristics of epitaxial Fe ₃ Si/Si(111) films. <i>JETP Letters</i> , 2014 , 99, 527-530	1.2	23
333	Methane oxidation over A-site ordered and disordered Sr _{0.8} Gd _{0.2} CoO _{3-δ} perovskites. <i>Chemical Communications</i> , 2014 , 50, 6112-5	5.8	21
332	Optical characteristics of an epitaxial Fe ₃ Si/Si(111) iron silicide film. <i>JETP Letters</i> , 2014 , 99, 565-569	1.2	9
331	Detecting a magnesiowüstite phase transition in the lower mantle by inversion of geomagnetic data. <i>Russian Geology and Geophysics</i> , 2014 , 55, 1138-1145	1	5
330	Uniaxial magnetic anisotropy of rhombohedral CoCO ₃ crystals at T = 0 K. <i>Physics of the Solid State</i> , 2014 , 56, 468-472	0.8	1
329	Solid-phase synthesis of manganese silicides on the Si(100)2 × 1 surface. <i>Physics of the Solid State</i> , 2014 , 56, 812-815	0.8	2
328	Ellipsometric technique for determining in situ the absorption coefficient of semiconducting nanolayers. <i>Technical Physics</i> , 2014 , 59, 736-739	0.5	
327	Analysis of the structure and magnetic properties of an interface in multilayered (Fe/Si) N nanostructures with the surface-sensitive XMCD method. <i>JETP Letters</i> , 2014 , 99, 706-711	1.2	2
326	Solid-State Reactions in Fe/Si Multilayer Nanofilms. <i>Solid State Phenomena</i> , 2014 , 215, 144-149	0.4	10
325	Comparison of the electronic structure of the Hubbard and t-J models within the cluster perturbation theory. <i>Physical Review B</i> , 2014 , 90,	3.3	9

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