

Denis V Vyalikh

List of Publications by Year in descending order

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242
papers

8,216
citations

44069

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64796

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246
all docs

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docs citations

246
times ranked

10679
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitrogen-Doped Graphene: Efficient Growth, Structure, and Electronic Properties. <i>Nano Letters</i> , 2011, 11, 5401-5407.	9.1	685
2	Tunable Band Gap in Hydrogenated Quasi-Free-Standing Graphene. <i>Nano Letters</i> , 2010, 10, 3360-3366.	9.1	297
3	Charge Transfer in the MoS ₂ /Carbon Nanotube Composite. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21199-21204.	3.1	255
4	Surface electronic structure of the Fe ₃ O ₄ (100): Evidence of a half-metal to metal transition. <i>Physical Review B</i> , 2005, 72, .	3.2	223
5	Graphene Synthesis on Cubic SiC/Si Wafers. Perspectives for Mass Production of Graphene-Based Electronic Devices. <i>Nano Letters</i> , 2010, 10, 992-995.	9.1	199
6	Tunable hybridization between electronic states of graphene and a metal surface. <i>Physical Review B</i> , 2008, 77, .	3.2	191
7	Dynamics of graphene growth on a metal surface: a time-dependent photoemission study. <i>New Journal of Physics</i> , 2009, 11, 073050.	2.9	173
8	Mineralization of the metre-long biosilica structures of glass sponges is templated on hydroxylated collagen. <i>Nature Chemistry</i> , 2010, 2, 1084-1088.	13.6	149
9	Three-dimensional chitin-based scaffolds from <i>Verongida</i> sponges (Demospongiae: Porifera). Part I. Isolation and identification of chitin. <i>International Journal of Biological Macromolecules</i> , 2010, 47, 132-140.	7.5	144
10	Spectroscopic and electrochemical characterization of the surface layers of chalcopyrite (CuFeS ₂) reacted in acidic solutions. <i>Applied Surface Science</i> , 2004, 225, 395-409.	6.1	127
11	Discovery of 505-million-year old chitin in the basal demosponge <i>Vauxia gracilentia</i> . <i>Scientific Reports</i> , 2013, 3, 3497.	3.3	123
12	Observation of a universal donor-dependent vibrational mode in graphene. <i>Nature Communications</i> , 2014, 5, 3257.	12.8	114
13	Insights into Chemistry of Biological Materials: Newly Discovered Silica-Aragonite-Chitin Biocomposites in Demosponges. <i>Chemistry of Materials</i> , 2010, 22, 1462-1471.	6.7	112
14	Commissioning results and performance of the high-resolution Russian-German Beamline at BESSY II. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 505, 718-728.	1.6	108
15	Quasifreestanding single-layer hexagonal boron nitride as a substrate for graphene synthesis. <i>Physical Review B</i> , 2010, 82, .	3.2	104
16	Three-dimensional chitin-based scaffolds from <i>Verongida</i> sponges (Demospongiae: Porifera). Part II: Biomimetic potential and applications. <i>International Journal of Biological Macromolecules</i> , 2010, 47, 141-145.	7.5	104
17	Evidence for a New Two-Dimensional C ₄ -Type Polymer Based on Hydrogenated Graphene. <i>Advanced Materials</i> , 2011, 23, 4497-4503.	21.0	90
18	Identification and first insights into the structure and biosynthesis of chitin from the freshwater sponge <i>Spongilla lacustris</i> . <i>Journal of Structural Biology</i> , 2013, 183, 474-483.	2.8	88

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19	Finite-Size Effect on Magnetic Ordering Temperatures in Long-Period Antiferromagnets: Holmium Thin Films. <i>Physical Review Letters</i> , 2004, 93, 157204.	7.8	83
20	Isolation and identification of chitin in the black coral <i>Parantipathes larix</i> (Anthozoa: Cnidaria). <i>International Journal of Biological Macromolecules</i> , 2012, 51, 129-137.	7.5	82
21	Observation of Single-Spin Dirac Fermions at the Graphene/Ferromagnet Interface. <i>Nano Letters</i> , 2015, 15, 2396-2401.	9.1	82
22	Electronic structure and electron-phonon coupling of doped graphene layers in $K C_8$ <i>Physical Review B</i> , 2009, 79, .	8.2	81
23	MoS ₂ –Carbon Nanotube Hybrid Material Growth and Gas Sensing. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700801.	3.7	73
24	Extreme biomimetic approach for developing novel chitin-GeO ₂ nanocomposites with photoluminescent properties. <i>Nano Research</i> , 2015, 8, 2288-2301.	10.4	71
25	Angle-resolved photoemission study of the graphite intercalation compound KC ₈ : A key to graphene. <i>Physical Review B</i> , 2009, 80, .	3.2	69
26	The Chemistry of Imperfections in N-Graphene. <i>Nano Letters</i> , 2014, 14, 4982-4988.	9.1	69
27	A comparative X-ray absorption near-edge structure study of bornite, Cu ₅ FeS ₄ , and chalcopyrite, CuFeS ₂ . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 142, 83-88.	1.7	66
28	Spin and Orbital Ground State of Co in Cobalt Phthalocyanine. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8917-8922.	2.5	66
29	Preparation of chitin–silica composites by in vitro silicification of two-dimensional <i>Ianthella basta</i> demosponge chitinous scaffolds under modified StÅrber conditions. <i>Materials Science and Engineering C</i> , 2013, 33, 3935-3941.	7.3	66
30	Carbon nanowalls: the next step for physical manifestation of the black body coating. <i>Scientific Reports</i> , 2013, 3, 3328.	3.3	64
31	Anisotropy of Chemical Bonding in Semifluorinated Graphite C ₂ F Revealed with Angle-Resolved X-ray Absorption Spectroscopy. <i>ACS Nano</i> , 2013, 7, 65-74.	14.6	61
32	ARPES view on surface and bulk hybridization phenomena in the antiferromagnetic Kondo lattice CeRh ₂ Si ₂ . <i>Nature Communications</i> , 2016, 7, 11029.	12.8	58
33	Correlations in the electronic structure of half-metallic ferromagnetic CrO ₂ films: An x-ray absorption and resonant photoemission spectroscopy study. <i>Physical Review B</i> , 2005, 72, .	3.2	57
34	Dependence of the Crystal-Field Splittings of $4f$ States in Rare-Earth Systems. <i>Physical Review Letters</i> , 2010, 105, 237601.	7.8	57
35	Fermi Gap Stabilization of an Incommensurate Two-Dimensional Superstructure. <i>Physical Review Letters</i> , 2005, 94, 016103.	7.8	55
36	High-resolution Russian–German beamline at BESSY. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 94, 501-505.	2.3	55

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37	Large-Scale Sublattice Asymmetry in Pure and Boron-Doped Graphene. Nano Letters, 2016, 16, 4535-4543.	9.1	55
38	Temperature-Independent Fermi Surface in the Kondo Lattice $\chi \sim \ln T$ Physical Review X, 2015, 5, .	8.9	52
39	Field emission luminescence of nanodiamonds deposited on the aligned carbon nanotube array. Scientific Reports, 2015, 5, 9379.	3.3	52
40	Raman Spectroscopy of Lattice-Matched Graphene on Strongly Interacting Metal Surfaces. ACS Nano, 2017, 11, 6336-6345.	14.6	52
41	Low-lying unoccupied electronic states in 3d transition-metal fluorides probed by NEXAFS at the Fermi threshold. Physical Review B, 2005, 71, .	3.2	51
42	Large spin splitting of metallic surface-state bands at adsorbate-modified gold/silicon surfaces. Scientific Reports, 2013, 3, 1826.	3.3	51
43	Hybridization Phenomena in Nearly-Half-Filled $\chi \sim \ln T$ of Shell Electron Systems: Photoemission Study of EuNi ₂ . Physical Review Letters, 2005, 95, 187401.	7.8	50
44	Structure and electronic properties of dysprosium-silicide nanowires on vicinal Si(001). Applied Physics Letters, 2005, 87, 083107.	3.3	49
45	Stability of Fluorinated Double-Walled Carbon Nanotubes Produced by Different Fluorination Techniques. Chemistry of Materials, 2010, 22, 4197-4203.	6.7	49
46	Direct observation of a dispersionless impurity band in hydrogenated graphene. Physical Review B, 2011, 83, .	3.2	49
47	Controlled assembly of graphene-capped nickel, cobalt and iron silicides. Scientific Reports, 2013, 3, 2168.	3.3	49
48	Epitaxial B-Graphene: Large-Scale Growth and Atomic Structure. ACS Nano, 2015, 9, 7314-7322.	14.6	49
49	Momentum dependence of d hybridization in heavy-fermion compounds: Angle-resolved photoemission study of YbIr ₂ Si ₂ and YbRh ₂ Si ₂ . Physical Review B, 2007, 75, .	3.2	46
50	Experimental and computational insight into the properties of the lattice-mismatched structures: Monolayers of h-BN and graphene on Ir(111). Physical Review B, 2012, 86, .	3.2	46
51	Emerging 2D-ferromagnetism and strong spin-orbit coupling at the surface of valence-fluctuating EuIr ₂ Si ₂ . Npj Quantum Materials, 2019, 4, .	5.2	46
52	Evolution of magnetism in Yb(Rh ₂ Si ₂) ₂ . Physical Review B, 2007, 75, .	3.2	45
53	Electronic properties of potassium-doped CuPc. Journal of Applied Physics, 2005, 98, 093702.	2.5	44
54	Chemistry and electronic properties of a metal-organic semiconductor interface: In on CuPc. Physical Review B, 2005, 72, .	3.2	43

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55	Photoemission Insight into Heavy-Fermion Behavior in YbRh ₂ Si ₂ . <i>Physical Review Letters</i> , 2008, 100, 056402.	7.8	43
56	Calcite Reinforced Silica—Silica Joints in the Biocomposite Skeleton of Deep-Sea Glass Sponges. <i>Advanced Functional Materials</i> , 2011, 21, 3473-3481.	14.9	43
57	Intermediate valence in Yb compounds probed by photoemission and resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2011, 84, .	3.2	42
58	Initial stages of iron silicide formation on the Si(100)2Å–1 surface. <i>Surface Science</i> , 2007, 601, 5069-5076.	1.9	41
59	Anisotropic Eliashberg function and electron-phonon coupling in doped graphene. <i>Physical Review B</i> , 2013, 88, .	3.2	41
60	Supercontinuum Generation in Naturally Occurring Glass Sponges Spicules. <i>Advanced Optical Materials</i> , 2016, 4, 1608-1613.	7.3	41
61	Energy Dispersion of 4f-Derived Emissions in Photoelectron Spectra of the Heavy-Fermion Compound YbRh ₂ Si ₂ . <i>Physical Review Letters</i> , 2006, 96, 106402.	7.8	40
62	Magnetic ordering of the Fe/Si interface and its initial formation. <i>Journal of Applied Physics</i> , 2008, 104, 104914.	2.5	40
63	The electronic structure of cobalt phthalocyanine. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 94, 485-489.	2.3	40
64	First report on chitinous holdfast in sponges (Porifera). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130339.	2.6	40
65	Electronic Structure of Regular Bacterial Surface Layers. <i>Physical Review Letters</i> , 2004, 93, 238103.	7.8	39
66	Comparative study of fluorinated single- and few-wall carbon nanotubes by X-ray photoelectron and X-ray absorption spectroscopy. <i>Carbon</i> , 2009, 47, 1629-1636.	10.3	39
67	Kinetic Isotope Effect in the Hydrogenation and Deuteration of Graphene. <i>Advanced Functional Materials</i> , 2013, 23, 1628-1635.	14.9	38
68	Electronic structure of pristine CuPc: Experiment and calculations. <i>Applied Surface Science</i> , 2007, 254, 20-25.	6.1	37
69	Multiphase Biomineralization: Enigmatic Invasive Siliceous Diatoms Produce Crystalline Calcite. <i>Advanced Functional Materials</i> , 2016, 26, 2503-2510.	14.9	37
70	High-resolution photoelectron spectroscopy of self-assembled mercaptohexanol monolayers on gold surfaces. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2008, 163, 59-64.	1.7	36
71	Phase accumulation model analysis of quantum well resonances formed in ultra-thin Ag, Au films on W(110). <i>Surface Science</i> , 2001, 487, 135-145.	1.9	35
72	Energy band dispersion in well ordered N,N'-dimethyl-3,4,9,10-perylenetetracarboxylic diimide films. <i>Applied Physics Letters</i> , 2004, 85, 4657-4659.	3.3	35

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73	Effect of Fe/Ni catalyst composition on nitrogen doping and field emission properties of carbon nanotubes. Carbon, 2008, 46, 864-869.	10.3	35
74	Insight into the f -Derived Fermi Surface of the Heavy-Fermion Compound YbRh_2Si_2 . Physical Review Letters, 2011, 107, 267601.	7.8	35
75	Effect of the fluorination technique on the surface-fluorination patterning of double-walled carbon nanotubes. Beilstein Journal of Nanotechnology, 2017, 8, 1688-1698.	2.8	35
76	Wave-vector dependent intensity variations of the Kondo peak in photoemission from CePd_3 . Physical Review B, 2005, 72, .	3.2	33
77	Synthesis and electronic structure of nitrogen-doped graphene. Physics of the Solid State, 2013, 55, 1325-1332.	0.6	33
78	Fermi-Surface Reconstruction and Complex Phase Equilibria in CaFe_2As_2 . Physical Review Letters, 2014, 112, 186401.	7.8	33
79	Electronic structure of the organic semiconductor copper phthalocyanine: Experiment and theory. Journal of Chemical Physics, 2008, 128, 034703.	3.0	32
80	Formation of MoS_2 nanoparticles on the surface of reduced graphite oxide. Physica Status Solidi (B): Basic Research, 2011, 248, 2740-2743.	1.5	32
81	Electronic structure of the $\text{Fe}_3\text{O}_4(111)$ surface. Physical Review B, 2004, 70, .	3.2	31
82	Controlling structural properties of self-assembled oligonucleotide-mercaptohexanol monolayers. Journal of Electron Spectroscopy and Related Phenomena, 2009, 172, 36-41.	1.7	30
83	Electronic Structure of Genomic DNA: A Photoemission and X-ray Absorption Study. Journal of Physical Chemistry B, 2010, 114, 9645-9652.	2.6	30
84	Strong ferromagnetism at the surface of an antiferromagnet caused by buried magnetic moments. Nature Communications, 2014, 5, 3171.	12.8	30
85	Cubic Rashba Effect in the Surface Spin Structure of Rare-Earth Ternary Materials. Physical Review Letters, 2020, 124, 237202.	7.8	30
86	Tuning Surface Chemistry of TiC Electrodes for Lithium-Air Batteries. Chemistry of Materials, 2016, 28, 8248-8255.	6.7	29
87	Robust and tunable itinerant ferromagnetism at the silicon surface of the antiferromagnet GdRh_2Si_2 . Scientific Reports, 2016, 6, 24254.	3.3	29
88	Soft X-ray spectroscopy and quantum chemistry characterization of defects in onion-like carbon produced by nanodiamond annealing. Diamond and Related Materials, 2007, 16, 1222-1226.	3.9	28
89	Oxygen Reduction by Lithiated Graphene and Graphene-Based Materials. ACS Nano, 2015, 9, 320-326.	14.6	28
90	Spin Orientation of Two-Dimensional Electrons Driven by Temperature-Tunable Competition of Spin-Orbit and Exchange-Magnetic Interactions. Nano Letters, 2017, 17, 811-820.	9.1	28

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91	Tuning the Hybridization at the Surface of a Heavy-Fermion System. <i>Physical Review Letters</i> , 2009, 103, 137601.	7.8	27
92	Controllable p-doping of graphene on Ir(111) by chlorination with FeCl ₃ . <i>Journal of Physics Condensed Matter</i> , 2012, 24, 314202.	1.8	27
93	Interplay of Dirac fermions and heavy quasiparticles in solids. <i>Nature Communications</i> , 2013, 4, 1646.	12.8	27
94	Extended energy range of Ag quantum-well states in Ag(111)/Au(111)/W(110). <i>Physical Review B</i> , 2000, 62, R2303-R2306.	3.2	26
95	Wave-Vector Conservation upon Hybridization of 4f and Valence-Band States Observed in Photoemission Spectra of a Ce Monolayer on W(110). <i>Physical Review Letters</i> , 2006, 96, 026404.	7.8	25
96	Orientation ordering of N ₂ molecules in vertically aligned CN x nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 94, 437-443.	2.3	25
97	Laser-induced transformation of supramolecular complexes: approach to controlled formation of hybrid multi-yolk-shell Au-Ag@C:H nanostructures. <i>Scientific Reports</i> , 2015, 5, 12027.	3.3	25
98	Charge-induced formation of thin conducting layers on fluorinated graphite surface. <i>Carbon</i> , 2015, 82, 446-458.	10.3	25
99	Electronic properties of potassium-doped FePc. <i>Organic Electronics</i> , 2010, 11, 1461-1468.	2.6	24
100	Electronic state of polyaniline deposited on carbon nanotube or ordered mesoporous carbon templates. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2484-2487.	1.5	24
101	Atomically precise semiconductor-graphene and hBN interfaces by Ge intercalation. <i>Scientific Reports</i> , 2015, 5, 17700.	3.3	24
102	Resonant magnetic X-ray scattering from ultrathin Ho metal films down to a few atomic layers. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001, 114-116, 953-957.	1.7	23
103	Photoemission study of cobalt interaction with the oxidized Si(100)2 \times 1 surface. <i>Surface Science</i> , 2006, 600, 2449-2456.	1.9	22
104	Oscillator strength of the peptide bond $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mi} \rangle \text{I} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{-} \langle \text{mml:mo} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \text{res}$ at all relevant x-ray absorption edges. <i>Physical Review B</i> , 2009, 80, .	3.2	22
105	Similar temperature scale for valence changes in Kondo lattices with different Kondo temperatures. <i>Nature Communications</i> , 2018, 9, 2011.	12.8	22
106	X-ray Absorption Microscopy of Bacterial Surface Protein Layers: X-ray Damage. <i>Journal of Physical Chemistry B</i> , 2007, 111, 13491-13498.	2.6	21
107	Encapsulation of molecular nitrogen in multiwall CNx nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 4078-4081.	1.5	21
108	Unexpected differences between surface and bulk spectroscopic and implied Kondo properties of heavy fermion CeRh ₂ Si ₂ . <i>Npj Quantum Materials</i> , 2020, 5, .	5.2	21

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109	Effect of oxidation and heat treatment on the morphology and electronic structure of carbon-encapsulated iron carbide nanoparticles. <i>Materials Chemistry and Physics</i> , 2012, 135, 235-240.	4.0	20
110	Crystal electric field in CeRh_2As_2 studied with high-resolution resonant inelastic soft x-ray scattering. <i>Physical Review B</i> , 2018, 97, .	2.0	20
111	Electronic Structures and Surface Reconstructions in Magnetic Superconductor $\text{RbEuFe}_4\text{As}_4$. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 9393-9399.	4.6	20
112	Photoemission and Near-Edge X-Ray Absorption Fine Structure Studies of the Bacterial Surface Protein Layer of <i>Bacillus sphaericus</i> NCTC 9602. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18620-18627.	2.6	19
113	Anomalous susceptibility in single crystals of EuCo_2Si_2 with trivalent Eu: Influence of excited J multiplets. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 621-625.	1.5	19
114	Nitrogen inserting in fluorinated graphene via annealing of acetonitrile intercalated graphite fluoride. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2530-2535.	1.5	19
115	Interaction of cobalt with the $\text{Si}(100)2\times 1$ surface studied by photoelectron spectroscopy. <i>Surface Science</i> , 2005, 578, 174-182.	1.9	18
116	CeFePO : Hybridization and Quenching of Superconductivity. <i>Physical Review Letters</i> , 2010, 104, 096402.	7.8	18
117	Tracing the localization of 4f electrons: Angle-resolved photoemission on YbCo_2Si_2 , the stable trivalent counterpart of the heavy-fermion YbRh_2Si_2 . <i>Physical Review B</i> , 2014, 90, .	3.2	18
118	Laterally Selective Oxidation of Large-Scale Graphene with Atomic Oxygen. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27915-27922.	3.1	18
119	Spectroscopic studies of the electronic properties of regularly arrayed two-dimensional protein layers. <i>Journal of Physics Condensed Matter</i> , 2006, 18, S131-S144.	1.8	17
120	Charge Transport in Proteins Probed by Resonant Photoemission. <i>Physical Review Letters</i> , 2009, 102, 098101.	7.8	17
121	Electronic structure of $\text{C}_{60}\text{F}_{36}$ studied by quantum-chemical modeling of experimental photoemission and x-ray absorption spectra. <i>Journal of Chemical Physics</i> , 2009, 130, 014704.	3.0	17
122	Electronic properties of hydrogenated quasi-free-standing graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2639-2643.	1.5	17
123	Electronic properties of self-assembled rare-earth silicide nanowires on $\text{Si}(001)$. <i>Physical Review B</i> , 2011, 83, .	3.2	17
124	Insight into Bio-metal Interface Formation in vacuo: Interplay of S-layer Protein with Copper and Iron. <i>Scientific Reports</i> , 2015, 5, 8710.	3.3	17
125	Electronic structure and coexistence of superconductivity with magnetism in RbEu_4As_4 . <i>Physical Review B</i> , 2021, 103, .	3.2	17
126	Unoccupied electronic states in an organic semiconductor probed with x-ray spectroscopy and first-principles calculations. <i>Journal of Chemical Physics</i> , 2008, 129, 154705.	3.0	16

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127	Controlling graphite oxide bandgap width by reduction in hydrogen. <i>Technical Physics Letters</i> , 2011, 37, 942-945.	0.7	16
128	Perforation of graphite in boiling mineral acid. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2620-2624.	1.5	16
129	Chemistry, structure and properties of bismuth copper titanate pyrochlores. <i>Solid State Ionics</i> , 2014, 262, 630-635.	2.7	16
130	Efficient gating of epitaxial boron nitride monolayers by substrate functionalization. <i>Physical Review B</i> , 2015, 92, .	3.2	16
131	Electron-phonon coupling in graphene placed between magnetic Li and Si layers on cobalt. <i>Physical Review B</i> , 2018, 97, .	3.2	16
132	Strong spin-orbit coupling in the noncentrosymmetric Kondo lattice. <i>Physical Review B</i> , 2018, 98, .	3.2	16
133	Initial stages of the growth and magnetic properties of cobalt films on the Si(100)2 Å ⁻¹ surface. <i>Physics of the Solid State</i> , 2011, 53, 616-621.	0.6	15
134	Site- and spin-dependent coupling at the highly ordered $\sqrt{3}\times\sqrt{3}$ h-BN/Co(0001) interface. <i>Physical Review B</i> , 2018, 98, .	3.2	15
135	Classical and cubic Rashba effect in the presence of in-plane $\sqrt{3}\times\sqrt{3}$ magnetism at the iridium silicide surface of the antiferromagnet $\sqrt{3}\times\sqrt{3}$ RFe ₂ Si ₂ . <i>Physical Review B</i> , 2021, 103, .	3.2	15
136	Electronic structure of bacterial surface protein layers. <i>Physical Review B</i> , 2008, 77, .	3.2	14
137	Real-Time Study of the Modification of the Peptide Bond by Atomic Calcium. <i>Journal of Physical Chemistry B</i> , 2011, 115, 2401-2407.	2.6	14
138	Using a Dual Plasma Process to Produce Cobalt-Polypyrrole Catalysts for the Oxygen Reduction Reaction in Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2012, 159, F560-F569.	2.9	14
139	Environmental control of electron-phonon coupling in barium doped graphene. <i>2D Materials</i> , 2016, 3, 045003.	4.4	14
140	$\sqrt{3}\times\sqrt{3}$ excitations in Ce Kondo lattices studied by resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2016, 93, .	3.2	14
141	Photoelectron Diffraction and Holography Studies of 2D Materials and Interfaces. <i>Journal of the Physical Society of Japan</i> , 2018, 87, 061005.	1.6	14
142	Oxygen Intercalation and Oxidation of Atomically Thin h-BN Grown on a Curved Ni Crystal. <i>Journal of Physical Chemistry C</i> , 2019, 123, 593-602.	3.1	14
143	The unoccupied electronic structure of potassium doped copper phthalocyanine studied by near edge absorption fine structure. <i>Journal of Applied Physics</i> , 2008, 103, 053711.	2.5	13
144	Cobalt-assisted recrystallization and alignment of pure and doped graphene. <i>Nanoscale</i> , 2018, 10, 12123-12132.	5.6	13

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145	Photoelectron diffraction for probing valency and magnetism of f -based materials: A view on valence-fluctuating f -based materials. <i>Physical Review B</i> , 2020, 102, .	3.2	13
146	Core electron level structure in C60F18 and C60F36 fluorinated fullerenes. <i>Technical Physics Letters</i> , 2009, 35, 256-259.	0.7	12
147	Using a Dual Plasma Process to Produce Cobalt-Polypyrrole Catalysts for the Oxygen Reduction Reaction in Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2012, 159, F494-F500.	2.9	12
148	Bismuth manganese titanate: Crystal structure and properties. <i>Solid State Ionics</i> , 2012, 225, 464-470.	2.7	12
149	Notable Reactivity of Acetonitrile Towards Li2O2/LiO2 Probed by NAP XPS During Li-O2 Battery Discharge. <i>Topics in Catalysis</i> , 2018, 61, 2114-2122.	2.8	12
150	Exchange scaling of ultrafast angular momentum transfer in 4f antiferromagnets. <i>Nature Materials</i> , 2022, 21, 514-517.	27.5	12
151	Photoemission study of the spin-density-wave state in thin films of Cr. <i>Physical Review B</i> , 2004, 70, .	3.2	11
152	Tuning the dispersion of 4f bands in the heavy-fermion material YbRh2Si2. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2010, 181, 70-75.	1.7	11
153	A comparative study of argon ion irradiated pristine and fluorinated single-wall carbon nanotubes. <i>Journal of Chemical Physics</i> , 2010, 133, 224706.	3.0	11
154	XANES Investigation of Pristine and Fluorinated Single-Walled Carbon Nanotubes Before and After Annealing. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2010, 18, 595-599.	2.1	11
155	Boron nitride monolayer growth on vicinal Ni(111) surfaces systematically studied with a curved crystal. <i>2D Materials</i> , 2019, 6, 025013.	4.4	11
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