Cristian Mihai Teodorescu

List of Publications by Year
in descending order

133	2,869	159585	243625
papers	citations	30 h-index	44 g-index

139	139	139	3582
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A new green, ascorbic acid-assisted method for versatile synthesis of Auâ€“graphene hybrids as efficient surface-enhanced Raman scattering platforms. Journal of Materials Chemistry C, 2013, 1, 4094.	5.5	111
2	An approximation of the Voigt I profile for the fitting of experimental X-ray absorption data. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 345, 141-147.	1.6	105
3	Structural and photocatalytic properties of iron- and europium-doped TiO2 nanoparticles obtained under hydrothermal conditions. Materials Chemistry and Physics, 2008, 112, 146-153.	4.0	93
4	Phenylboronic-Acid-Modified Nanoparticles: Potential Antiviral Therapeutics. ACS Applied Materials & Interfaces, 2013, 5, 12488-12498.	8.0	71
5	Polarization-Control of the Potential Barrier at the Electrode Interfaces in Epitaxial Ferroelectric Thin Films. ACS Applied Materials & Interfaces, 2014, 6, 2929-2939.	8.0	69
6	Efficient glucose dehydration to HMF onto Nb-BEA catalysts. Catalysis Today, 2019, 325, 109-116.	4.4	67
7	NbF‹sub›5‹/sub›â€“AlF‹sub›3‹/sub› Catalysts: Design, Synthesis, and Application in Lactic Acid Synthesis from Cellulose. ACS Catalysis, 2015, 5, 3013-3026.	11.2	66
8	On the hydrophilicity of nitrogen-doped TiO2 thin films. Surface Science, 2007, 601, 4515-4520.	1.9	65
9	Surface versus volume effects in luminescent ceria nanocrystals synthesized by an oil-in-water microemulsion method. Physical Chemistry Chemical Physics, 2011, 13, 17135.	2.8	63
10	High hexitols selectivity in cellulose hydrolytic hydrogenation over platinum (Pt) vs. ruthenium (Ru) catalysts supported on micro/mesoporous carbon. Applied Catalysis B: Environmental, 2017, 214, 1-14.	20.2	57
11	Polarization induced self-doping in epitaxial Pb(Zr0.20Ti0.80)O3 thin films. Scientific Reports, 2015, 5, 14974.	3.3	56
12	Oxygenophilic ionic liquids promote the oxygen reduction reaction in Pt-free carbon electrocatalysts. Materials Horizons, 2017, 4, 895-899.	12.2	56
13	Chemical Imaging of Catalyst Deactivation during the Conversion of Renewables at the Single Particle Level: Etherification of Biomass-Based Polyols with Alkenes over H-Beta Zeolites. Journal of the American Chemical Society, 2010, 132, 10429-10439.	13.7	55
14	Charge transfer and band bending at Au/Pb(Zr0.2Ti0.8)O3 interfaces investigated by photoelectron spectroscopy. Applied Surface Science, 2013, 273, 415-425.	6.1	53
15	Synthesis, structural characterization, and photocatalytic properties of iron-doped TiO2 aerogels. Journal of Materials Science, 2009, 44, 358-364.	3.7	52
16	Oneâ€Pot Synthesis of Menthol Catalyzed by a Highly Diastereoselective Au/MgF‹sub›2‹/sub› Catalyst. Angewandte Chemie - International Edition, 2010, 49, 8134-8138.	13.8	50
17	Band bending at free Pb(Zr,Ti)O3 surfaces analyzed by X-ray photoelectron spectroscopy. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2013, 178, 1317-1322.	3.5	44
18	Reducibility of ruthenium in relation with zeolite structure. Applied Surface Science, 1999, 141, 164-176.	6.1	43

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19	Spectro-microscopic photoemission evidence of charge uncompensated areas in Pb(Zr,Ti)O₃(001) layers. Physical Chemistry Chemical Physics, 2015, 17, 509-520.	2.8	43
20	Characterization of titania thin films prepared by reactive pulsed-laser ablation. Surface Science, 2006, 600, 4342-4346.	1.9	41
21	Atomic structure of the reactive Fe/Si(111)7Ã—7 interface. Physical Review B, 1997, 55, R7315-R7318.	3.2	40
22	Selective adsorption of contaminants on Pb(Zr,Ti)O₃ surfaces shown by X-ray photoelectron spectroscopy. Journal of Materials Chemistry A, 2014, 2, 14386-14392.	10.3	40
23	Increasing surface hydrophilicity of titania thin films by doping. Applied Surface Science, 2006, 252, 6122-6126.	6.1	39
24	Preparation and characterization of increased-efficiency photocatalytic TiO2â€“2xNx thin films. Thin Solid Films, 2007, 515, 8605-8610.	1.8	39
25	X-ray photoelectron diffraction study of relaxation and rumpling of ferroelectric domains in BaTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>(001). Physical Review B, 2013, 87, .	3.2	36
26	Electron accumulation layer on clean In-terminated InAs(0 0 1)(4Ã—2)-c(8Ã—2) surface. Surface Science, 2001, 482-485, 587-592.	1.9	35
27	Polarization Orientation in Lead Zirconate Titanate (001) Thin Films Driven by the Interface with the Substrate. Physical Review Applied, 2018, 10, .	3.8	35
28	Unresolvable Rydberg lines in X-ray absorption spectra of free atoms. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, 4019-4039.	1.5	34
29	Structure, morphology and magnetic properties of Feâ€“Au core-shell nanoparticles. Surface Science, 2007, 601, 4352-4357.	1.9	34
30	Band bending in Au/Pb(Zr,Ti)O 3 investigated by X-ray photoelectron spectroscopy: Dependence on the initial state of the film. Thin Solid Films, 2013, 545, 13-21.	1.8	32
31	Thickness effect in Pb(Zr0.2Ti0.8)O3 ferroelectric thin films grown by pulsed laser deposition. Applied Surface Science, 2006, 252, 4549-4552.	6.1	31
32	Sustainable metal-free carbogels as oxygen reduction electrocatalysts. Journal of Materials Chemistry A, 2017, 5, 16336-16343.	10.3	31
33	Growth and characterization of single crystalline NiMnSb thin films and epitaxial NiMnSb/MgO/NiMnSb(001) trilayers. Physical Review B, 2002, 65, .	3.2	30
34	Biocatalytic microreactor incorporating HRP anchored on micro-/nano-lithographic patterns for flow oxidation of phenols. Journal of Molecular Catalysis B: Enzymatic, 2011, 69, 133-139.	1.8	28
35	Analysis of electron traps at the 4Hâ€“SiC/SiO2 interface; influence by nitrogen implantation prior to wet oxidation. Journal of Applied Physics, 2010, 108, 024503.	2.5	27
36	Experimental evidence of long-range magnetic order in thec(2Ã—2)MnCu(100)surface alloy. Physical Review B, 2001, 64, .	3.2	26

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37	S 2p excitation and fragmentation of sulfur aggregates. Journal of Chemical Physics, 1998, 109, 9280-9287.	3.0	25
38	Epitaxy and Magnetic Properties of Surfactant-Mediated Growth of bcc Cobalt. Physical Review Letters, 2005, 94, 187601.	7.8	25
39	Reactivity and magnetism of Fe/InAs(100) interfaces. European Physical Journal B, 2002, 28, 305-313.	1.5	24
40	Epitaxial ferromagnetic samarium and samarium silicide synthesized on Si(001). Journal of Materials Science, 2012, 47, 7225-7234.	3.7	24
41	An adamantane-based COF: stability, adsorption capability, and behaviour as a catalyst and support for Pd and Au for the hydrogenation of nitrostyrene. Catalysis Science and Technology, 2016, 6, 8344-8354.	4.1	24
42	Ferromagnetic hcp Chromium in Cr/Ru(0001) Superlattices. Physical Review Letters, 2000, 85, 5344-5347.	7.8	23
43	Fe-doped TiO2 thin films. Surface Science, 2007, 601, 4479-4483.	1.9	23
44	Novel Pd heterogeneous catalysts for cycloisomerisation of acetylenic carboxylic acids. Green Chemistry, 2010, 12, 2145.	9.0	23
45	Ferroelectric triggering of carbon monoxide adsorption on lead zirco-titanate (001) surfaces. Scientific Reports, 2016, 6, 35301.	3.3	23
46	Thermal Induced Evolution of Chlorine-Containing Precursors in Impregnated Pd/Al2O3 Catalysts. Langmuir, 1995, 11, 2031-2040.	3.5	22
47	Structural investigations of Ge nanoparticles embedded in an amorphous SiO2 matrix. Journal of Nanoparticle Research, 2011, 13, 221-232.	1.9	22
48	Spirobifluoreneâ€based Porous Organic Polymers as Efficient Porous Supports for Pd and Pt for Selective Hydrogenation. ChemCatChem, 2019, 11, 538-549.	3.7	22
49	Structure of Fe layers grown on InAs(100). Applied Surface Science, 2000, 166, 137-142.	6.1	21
50	Riboflavin enhanced fluorescence of highly reduced graphene oxide. Chemical Physics Letters, 2013, 586, 127-131.	2.6	21
51	Schottky barrier versus surface ferroelectric depolarization at Cu/Pb(Zr, Ti)O3 interfaces. Journal of Materials Science, 2014, 49, 3337-3351.	3.7	21
52	Aging phenomena and wettability control of plasma deposited carbon nanowall layers. Plasma Processes and Polymers, 2017, 14, 1700023.	3.0	21
53	Reduced magnetic moment per atom in small Ni and Co clusters embedded in AlN. Journal of Applied Physics, 2001, 90, 6367-6373.	2.5	20
54	Band bending at copper and gold interfaces with ferroelectric Pb(Zr,Ti)O3 investigated by photoelectron spectroscopy. Applied Surface Science, 2015, 354, 459-468.	6.1	19

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55	The interplay of work function and polarization state at the Schottky barriers height for Cu/BaTiO3 interface. Applied Surface Science, 2020, 502, 144101.	6.1	19
56	K edge absorption spectra of sulphur in vapour, molecular and polymerized solid phases. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, 5773-5784.	1.5	18
57	Fe- and Eu-doped TiO2 Photocatalytical Materials Prepared by High Energy Ball Milling. Topics in Catalysis, 2009, 52, 544-556.	2.8	18
58	Telomerization of 1,3-Butadiene with Biomass-Derived Alcohols over a Heterogeneous Pd/TPPTS Catalyst Based on Layered Double Hydroxides. ACS Catalysis, 2011, 1, 526-536.	11.2	18
59	X-ray magnetic circular dichroism, photoemission and RHEED studies of Fe/InAs(100) interfaces. Surface Science, 2001, 482-485, 1004-1009.	1.9	17
60	Xâ€ray photoelectron spectroscopy of pulsed laser deposited Pb(Zr,Ti)O_{3â^’Î´}. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 1049-1052.	1.8	17
61	Room Temperature Ferromagnetic, Anisotropic, Germanium Rich FeGe(001) Alloys. Materials, 2013, 6, 612-625.	2.9	16
62	Photoelectron spectroscopy and spectro-microscopy of Pb(Zr,Ti)O 3 (1 1 1) thin layers: Imaging ferroelectric domains with binding energy contrast. Applied Surface Science, 2015, 352, 73-81.	6.1	16
63	Oriented Au nanoplatelets on graphene promote Suzuki-Miyaura coupling with higher efficiency and different reactivity pattern than supported palladium. Journal of Catalysis, 2017, 352, 59-66.	6.2	16
64	The Meyerâ€“Neldel rule in amorphous TiO₂ films with different Fe content. Journal of Materials Research, 2012, 27, 2271-2277.	2.6	15
65	Heterogeneous amination of bromobenzene over titania-supported gold catalysts. Journal of Catalysis, 2012, 296, 43-54.	6.2	15
66	Comparative study of magnetism and interface composition in Fe/GaAs(100) and Fe/InAs(100). Surface Science, 2006, 600, 4200-4204.	1.9	14
67	Significantly different contamination of atomically clean Si(001) when investigated by XPS and AES. Physica Status Solidi (B): Basic Research, 2011, 248, 1919-1924.	1.5	14
68	Interface charge transfer in polypyrrole coated perovskite manganite magnetic nanoparticles. Journal of Applied Physics, 2012, 111, .	2.5	14
69	Atomic structure and reactivity of ferromagnetic Fe deposited on Si(001). Journal of Materials Science, 2012, 47, 1614-1620.	3.7	14
70	Structure, reactivity, electronic configuration and magnetism of samarium atomic layers deposited on Si(001) by molecular beam epitaxy. Applied Surface Science, 2013, 267, 106-111.	6.1	14
71	Câ€“N cross-coupling on supported copper catalysts: The effect of the support, oxidation state, base and solvent. Journal of Catalysis, 2016, 341, 205-220.	6.2	14
72	Low-energy electron diffraction from ferroelectric surfaces: Dead layers and surface dipoles in clean <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mi>Pb</mml:mi></mml:mrow><mml:mo>(</mml:mo><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mn>0 Physical Review B, 2017, 96, .	3.2	14

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73	interface formation studied by photoelectron diffraction. Surface Science, 1997, 377-379, 856-860.	1.9	13
74	Initial stage of the growth of Fe on Si(111)(1 Ã— 1)H. Applied Surface Science, 1998, 123-124, 156-160.	6.1	13
75	Resonant excitation series at theKr3pandXe4pthresholds. Physical Review B, 1999, 60, 3995-4004.	3.2	13
76	Sodium 1s photoabsorption spectra of Na and NaF clusters deposited in rare gas matrices. Journal of Electron Spectroscopy and Related Phenomena, 2000, 106, 233-245.	1.7	13
77	Atomic structure and magnetic properties of Mn on InAs(1 0 0). Applied Surface Science, 2003, 212-213, 17-25.	6.1	13
78	Gold nano-island arrays on silicon as SERS active substrate for organic molecule detection. Thin Solid Films, 2014, 550, 354-360.	1.8	13
79	The combined action of methanolysis and heterogeneous photocatalysis in the decomposition of chemical warfare agents. Chemical Communications, 2016, 52, 12956-12959.	4.1	13
80	Polarization landscape effects in soft X-ray-induced surface chemical decomposition of lead zirco-titanate, evidenced by photoelectron spectromicroscopy. Nanoscale, 2017, 9, 11055-11067.	5.6	13
81	Ferroelectricity in thin films driven by charges accumulated at interfaces. Physical Chemistry Chemical Physics, 2021, 23, 4085-4093.	2.8	13
82	Magnetic V embedded in copper evidenced by x-ray magnetic circular dichroism. Physical Review B, 2003, 67, .	3.2	12
83	Enhancing Oxidative Dehydrogenation Selectivity of Ceriaâ€Based Catalysts with Phosphorus as Additive. ChemCatChem, 2013, 5, 757-765.	3.7	12
84	Cobaltâ€doped ZnO prepared by electrochemistry: Chemistry, morphology, and magnetism. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2517-2522.	1.8	11
85	Nanostructured thin layers of vanadium oxides doped with cobalt, prepared by pulsed laser ablation: chemistry, local atomic structure, morphology and magnetism. Journal of Experimental Nanoscience, 2010, 5, 509-526.	2.4	11
86	Non-interacting, sp² carbon on a ferroelectric lead zirco-titanate: towards graphene synthesis on ferroelectrics in ultrahigh vacuum. RSC Advances, 2016, 6, 67883-67887.	3.6	11
87	Degenerated TiO₂ Semiconductor Modified with Ni and Zn as Efficient Photocatalysts for the Water Splitting Reaction. ChemCatChem, 2020, 12, 4642-4651.	3.7	11
88	Na1sexcitations in vapor and solid sodium halides. Physical Review B, 2001, 63, .	3.2	10
89	Interface characterization and atomic intermixing processes in Be/W bilayers deposited on Si(001) substrates with Fe buffer layers. Journal of Alloys and Compounds, 2012, 512, 199-206.	5.5	10
90	Image molecular dipoles in surface enhanced Raman scattering. Physical Chemistry Chemical Physics, 2015, 17, 21302-21314.	2.8	10

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91	Epitaxial growth of bcc Co films on Sb-passivated GaAs(110) substrates. Journal of Electron Spectroscopy and Related Phenomena, 1999, 101-103, 493-499.	1.7	9
92	Impact on Ferroelectricity and Band Alignment of Gradually Grown Au on BaTiO 3. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900077.	2.4	9
93	Quantitative analysis of the sodium 1s single- and double-excitation spectrum by using atomic profiles convolved with the instrumental function. Journal of Physics B: Atomic, Molecular and Optical Physics, 1997, 30, 4293-4313.	1.5	8
94	Growth of Epitaxial Co Layers on Sb-Passivated GaAs(110) Substrates. Surface Review and Letters, 1998, 05, 279-283.	1.1	8
95	Room Temperature Ferromagnetic Mn:Ge(001). Materials, 2014, 7, 106-129.	2.9	8
96	Triggering surface ferroelectric order in Pb(Zr,Ti)O3(001) by deposition of platinum. Applied Surface Science, 2018, 432, 27-33.	6.1	8
97	Influence of the substrate surface termination on the properties of bcc-cobalt films: GaAs(110) versus Sb/GaAs(110). Applied Surface Science, 2004, 234, 468-474.	6.1	7
98	Growth mechanisms and band bending in Cu and Pt on Ge(001) investigated by LEED and photoelectron spectroscopy. Surface Science, 2016, 653, 97-106.	1.9	7
99	Resistance hysteresis correlated with synchrotron radiation surface studies in atomic sp² layers of carbon synthesized on ferroelectric (001) lead zirconate titanate in an ultrahigh vacuum. RSC Advances, 2020, 10, 1522-1534.	3.6	7
100	Mesoporous Tin-Triflate Based Catalysts for Transesterification of Sunflower Oil. Topics in Catalysis, 2010, 53, 763-772.	2.8	6
101	From Glucose Direct to Succinic Acid: an Optimized Recyclable Bi-functional Ru@MNP-MWCNT Catalyst. Topics in Catalysis, 2018, 61, 1866-1876.	2.8	6
102	A gas microstrip detector for XAS studies in the photon energy region 300â€“1500 eV. Journal of Synchrotron Radiation, 2003, 10, 455-460.	2.4	5
103	EXAFS investigation of iron local environment in metal-doped titania photocatalysts prepared by hydrothermal and high-energy ball milling routes. Journal of Materials Science: Materials in Electronics, 2009, 20, 211-215.	2.2	5
104	Growth of Ag(1â€¯1â€¯1) on Si(1â€¯1â€¯1) with nearly flat band and abrupt interface. Applied Surface Science, 2019, 473, 433-441.	6.1	5
105	Self-consistently derived sample permittivity in stabilization of ferroelectricity due to charge accumulated at interfaces. Physical Chemistry Chemical Physics, 2022, 24, 5419-5430.	2.8	5
106	Retractable miniature double pass cylindrical mirror analyzers. Review of Scientific Instruments, 1998, 69, 3805-3808.	1.3	4
107	Structural and magnetic properties of Cr in Cr/Ru(0001) multilayers. Physical Review B, 2002, 66, .	3.2	4
108	NiMnSb/MgO/NiMnSb heterostructures grown by MBE. Journal of Magnetism and Magnetic Materials, 2002, 240, 427-429.	2.3	4

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109	Photo-degradation activity of sputter-deposited nitrogen-doped titania thin films. Thin Solid Films, 2009, 518, 1040-1043.	1.8	4
110	New analytical approximation of diffraction size broadened peak profile for spherical crystallites with a lognormal distribution. Journal of Applied Crystallography, 2010, 43, 1027-1030.	4.5	4
111	Long-range magnetic interaction in Mn $$_{x}$$ x Ge $$_{1-x}$$ 1 - x : structural, spectromicroscopic and magnetic investigations. Journal of Materials Science, 2017, 52, 3309-3320.	3.7	4
112	Photoelectron spectroscopic and microspectroscopic probes of ferroelectrics. AIP Conference Proceedings, 2017, , .	0.4	4
113	CO adsorption, reduction and oxidation on Pb(Zr,Ti)O3(001) surfaces associated with negatively charged gold nanoparticles. Catalysis Today, 2021, 366, 141-154.	4.4	4
114	CO adsorption and oxidation at room temperature on graphene synthesized on atomically clean Pt(001). Catalysis Today, 2021, 366, 155-163.	4.4	4
115	K edge photoabsorption spectra in gas phase alkali halides. Physica B: Condensed Matter, 1995, 208-209, 115-116.	2.7	3
116	X-ray absorption fine structure investigations on heat-treated Cr-doped titania thin films. Thin Solid Films, 2011, 520, 1348-1352.	1.8	3
117	Matrix assisted pulsed laser evaporation of Mn12(Propionate) thin films. Applied Surface Science, 2012, 258, 9471-9474.	6.1	3
118	Structural and magnetic properties of Ni nanofilms on Ge(001) by molecular beam epitaxy. Applied Surface Science, 2017, 424, 337-344.	6.1	3
119	EXAFS characterization of Dy and Pd-Dy on alumina catalysts. Reaction Kinetics and Catalysis Letters, 1994, 52, 81-86.	0.6	2
120	Polarized XAS experiments on magnetic rare earth clusters. Physica B: Condensed Matter, 1995, 208-209, 773-774.	2.7	2
121	Resonant photoemission and XMCD on Mn-based systems. Journal of Alloys and Compounds, 2004, 362, 41-47.	5.5	2
122	Low temperature two-dimensional behaviour of spin and orbital moments in Ni monolayers grown on Cu(001). Surface Science, 2007, 601, 4292-4296.	1.9	2
123	Magnetization enhancement of magnetic nanoparticles coated with polypyrrole. , 2012, , .		2
124	Room temperature ferromagnetism and its correlation to ferroelectricity of manganese embedded in lead zirco-titanate. Thin Solid Films, 2019, 669, 440-449.	1.8	2
125	Surface Reactivity and Magnetism at Metal-Semiconductor Interfaces. Springer Series in Materials Science, 2014, , 239-292.	0.6	2
126	Nanoscopic correlations from curve fitting of photoelectron spectromicroscopy data cubes of lead zirconate titanate films. Results in Physics, 2022, 36, 105436.	4.1	2

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127	Crystal momentum dependence of the correlation satellite intensity in the 3 p â† 3 d resonant photoemission spectra of Bi 2 Sr 2 CaCu 2 O 8 + Î´. Europhysics Letters, 2000, 50, 347-353.	2.0	1
128	Spin asymmetry originating from densities of states: Criterion for ferromagnetism, structures and magnetic properties of 3d metals from crystal field based DOSs. Results in Physics, 2021, 25, 104241.	4.1	1
129	Local Ordering at the Interface of the TiO2-WO3 Bi-Layers. Nanoscience and Technology, 2016, , 317-331.	1.5	1
130	Back Cover (Phys. Status Solidi A 11/2010). Physica Status Solidi (A) Applications and Materials Science, 2010, 207, n/a-n/a.	1.8	0
131	Back Cover: Significantly different contamination of atomically clean Si(001) when investigated by XPS and AES (Phys. Status Solidi B 8/2011). Physica Status Solidi (B): Basic Research, 2011, 248, .	1.5	0
132	Band bending at magnetic Ni/Ge(001) interface investigated by X-ray photoelectron spectroscopy. Applied Surface Science, 2017, 424, 269-274.	6.1	0
133	Re-entrant ferromagnetism at ultrahigh temperatures in epsilonâ€“iron as possible origin of the geomagnetic field. Physics of the Earth and Planetary Interiors, 2022, 326, 106856.	1.9	0