

Cristian Mihai Teodorescu

List of Publications by Year in descending order

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133
papers

2,869
citations

159585

30
h-index

243625

44
g-index

139
all docs

139
docs citations

139
times ranked

3582
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-consistently derived sample permittivity in stabilization of ferroelectricity due to charge accumulated at interfaces. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 5419-5430.	2.8	5
2	Nanosopic correlations from curve fitting of photoelectron spectromicroscopy data cubes of lead zirconate titanate films. <i>Results in Physics</i> , 2022, 36, 105436.	4.1	2
3	Re-entrant ferromagnetism at ultrahigh temperatures in epsilon-iron as possible origin of the geomagnetic field. <i>Physics of the Earth and Planetary Interiors</i> , 2022, 326, 106856.	1.9	0
4	CO adsorption, reduction and oxidation on Pb(Zr,Ti)O ₃ (001) surfaces associated with negatively charged gold nanoparticles. <i>Catalysis Today</i> , 2021, 366, 141-154.	4.4	4
5	CO adsorption and oxidation at room temperature on graphene synthesized on atomically clean Pt(001). <i>Catalysis Today</i> , 2021, 366, 155-163.	4.4	4
6	Ferroelectricity in thin films driven by charges accumulated at interfaces. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 4085-4093.	2.8	13
7	Spin asymmetry originating from densities of states: Criterion for ferromagnetism, structures and magnetic properties of 3d metals from crystal field based DOSs. <i>Results in Physics</i> , 2021, 25, 104241.	4.1	1
8	The interplay of work function and polarization state at the Schottky barriers height for Cu/BaTiO ₃ interface. <i>Applied Surface Science</i> , 2020, 502, 144101.	6.1	19
9	Resistance hysteresis correlated with synchrotron radiation surface studies in atomic sp ² layers of carbon synthesized on ferroelectric (001) lead zirconate titanate in an ultrahigh vacuum. <i>RSC Advances</i> , 2020, 10, 1522-1534.	3.6	7
10	Degenerated TiO ₂ Semiconductor Modified with Ni and Zn as Efficient Photocatalysts for the Water Splitting Reaction. <i>ChemCatChem</i> , 2020, 12, 4642-4651.	3.7	11
11	Efficient glucose dehydration to HMF onto Nb-BEA catalysts. <i>Catalysis Today</i> , 2019, 325, 109-116.	4.4	67
12	Impact on Ferroelectricity and Band Alignment of Gradually Grown Au on BaTiO ₃ . <i>Physica Status Solidi - Rapid Research Letters</i> , 2019, 13, 1900077.	2.4	9
13	Spirobifluorene-based Porous Organic Polymers as Efficient Porous Supports for Pd and Pt for Selective Hydrogenation. <i>ChemCatChem</i> , 2019, 11, 538-549.	3.7	22
14	Growth of Ag(111) on Si(111) with nearly flat band and abrupt interface. <i>Applied Surface Science</i> , 2019, 473, 433-441.	6.1	5
15	Room temperature ferromagnetism and its correlation to ferroelectricity of manganese embedded in lead zirco-titanate. <i>Thin Solid Films</i> , 2019, 669, 440-449.	1.8	2
16	Triggering surface ferroelectric order in Pb(Zr,Ti)O ₃ (001) by deposition of platinum. <i>Applied Surface Science</i> , 2018, 432, 27-33.	6.1	8
17	Polarization Orientation in Lead Zirconate Titanate (001) Thin Films Driven by the Interface with the Substrate. <i>Physical Review Applied</i> , 2018, 10, .	3.8	35
18	From Glucose Direct to Succinic Acid: an Optimized Recyclable Bi-functional Ru@MNP-MWCNT Catalyst. <i>Topics in Catalysis</i> , 2018, 61, 1866-1876.	2.8	6

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19	Structural and magnetic properties of Ni nanofilms on Ge(001) by molecular beam epitaxy. Applied Surface Science, 2017, 424, 337-344.	6.1	3
20	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
21	Sustainable metal-free carbogels as oxygen reduction electrocatalysts. Journal of Materials Chemistry A, 2017, 5, 16336-16343.	10.3	31
22	Band bending at magnetic Ni/Ge(001) interface investigated by X-ray photoelectron spectroscopy. Applied Surface Science, 2017, 424, 269-274.	6.1	0
23	Aging phenomena and wettability control of plasma deposited carbon nanowall layers. Plasma Processes and Polymers, 2017, 14, 1700023.	3.0	21
24	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
25	Long-range magnetic interaction in Mn _x Ge _{1-x} : structural, spectromicroscopic and magnetic investigations. Journal of Materials Science, 2017, 52, 3309-3320.	3.7	4
26	Low-energy electron diffraction from ferroelectric surfaces: Dead layers and surface dipoles in clean PbTiO_3 . Physical Review B, 2017, 96, .		
27	Oxygenophilic ionic liquids promote the oxygen reduction reaction in Pt-free carbon electrocatalysts. Materials Horizons, 2017, 4, 895-899.	12.2	56
28	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
29	Photoelectron spectroscopic and microspectroscopic probes of ferroelectrics. AIP Conference Proceedings, 2017, , .	0.4	4
30	Non-interacting, sp^2 carbon on a ferroelectric lead zirco-titanate: towards graphene synthesis on ferroelectrics in ultrahigh vacuum. RSC Advances, 2016, 6, 67883-67887.	3.6	11
31	Ferroelectric triggering of carbon monoxide adsorption on lead zirco-titanate (001) surfaces. Scientific Reports, 2016, 6, 35301.	3.3	23
32	The combined action of methanolysis and heterogeneous photocatalysis in the decomposition of chemical warfare agents. Chemical Communications, 2016, 52, 12956-12959.	4.1	13
33	C ⁶⁰ 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
34	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
35	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
36	Local Ordering at the Interface of the TiO ₂ -WO ₃ Bi-Layers. Nanoscience and Technology, 2016, , 317-331.	1.5	1

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37	Polarization induced self-doping in epitaxial Pb(Zr _{0.20} Ti _{0.80})O ₃ thin films. Scientific Reports, 2015, 5, 14974.	3.3	56
38	Image molecular dipoles in surface enhanced Raman scattering. Physical Chemistry Chemical Physics, 2015, 17, 21302-21314.	2.8	10
39	Band bending at copper and gold interfaces with ferroelectric Pb(Zr,Ti)O ₃ investigated by photoelectron spectroscopy. Applied Surface Science, 2015, 354, 459-468.	6.1	19
40	NbF ₅ AlF ₃ Catalysts: Design, Synthesis, and Application in Lactic Acid Synthesis from Cellulose. ACS Catalysis, 2015, 5, 3013-3026.	11.2	66
41	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
42	Spectro-microscopic photoemission evidence of charge uncompensated areas in Pb(Zr,Ti)O ₃ (001) layers. Physical Chemistry Chemical Physics, 2015, 17, 509-520.	2.8	43
43	Room Temperature Ferromagnetic Mn:Ge(001). Materials, 2014, 7, 106-129.	2.9	8
44	Schottky barrier versus surface ferroelectric depolarization at Cu/Pb(Zr, Ti)O ₃ interfaces. Journal of Materials Science, 2014, 49, 3337-3351.	3.7	21
45	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
46	Gold nano-island arrays on silicon as SERS active substrate for organic molecule detection. Thin Solid Films, 2014, 550, 354-360.	1.8	13
47	Selective adsorption of contaminants on Pb(Zr,Ti)O ₃ surfaces shown by X-ray photoelectron spectroscopy. Journal of Materials Chemistry A, 2014, 2, 14386-14392.	10.3	40
48	Surface Reactivity and Magnetism at Metal-Semiconductor Interfaces. Springer Series in Materials Science, 2014, , 239-292.	0.6	2
49	Charge transfer and band bending at Au/Pb(Zr _{0.2} Ti _{0.8})O ₃ interfaces investigated by photoelectron spectroscopy. Applied Surface Science, 2013, 273, 415-425.	6.1	53
50	Phenylboronic-Acid-Modified Nanoparticles: Potential Antiviral Therapeutics. ACS Applied Materials & Interfaces, 2013, 5, 12488-12498.	8.0	71
51	Riboflavin enhanced fluorescence of highly reduced graphene oxide. Chemical Physics Letters, 2013, 586, 127-131.	2.6	21
52	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
53	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
54	Band bending at free Pb(Zr,Ti)O ₃ 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

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55	Enhancing Oxidative Dehydrogenation Selectivity of Ceria-Based Catalysts with Phosphorus as Additive. <i>ChemCatChem</i> , 2013, 5, 757-765.	3.7	12
56	A new green, ascorbic acid-assisted method for versatile synthesis of Au-graphene hybrids as efficient surface-enhanced Raman scattering platforms. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4094.	5.5	111
57	X-ray photoelectron diffraction study of relaxation and rumpling of ferroelectric domains in BaTiO ₃ (001). <i>Physical Review B</i> , 2013, 87, .	3.2	36
58	Room Temperature Ferromagnetic, Anisotropic, Germanium Rich FeGe(001) Alloys. <i>Materials</i> , 2013, 6, 612-625.	2.9	16
59	Magnetization enhancement of magnetic nanoparticles coated with polypyrrole. , 2012, , .		2
60	The Meyer-Neldel rule in amorphous TiO ₂ films with different Fe content. <i>Journal of Materials Research</i> , 2012, 27, 2271-2277.	2.6	15
61	Heterogeneous amination of bromobenzene over titania-supported gold catalysts. <i>Journal of Catalysis</i> , 2012, 296, 43-54.	6.2	15
62	Epitaxial ferromagnetic samarium and samarium silicide synthesized on Si(001). <i>Journal of Materials Science</i> , 2012, 47, 7225-7234.	3.7	24
63	Interface charge transfer in polypyrrole coated perovskite manganite magnetic nanoparticles. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	14
64	Matrix assisted pulsed laser evaporation of Mn ₁₂ (Propionate) thin films. <i>Applied Surface Science</i> , 2012, 258, 9471-9474.	6.1	3
65	Interface characterization and atomic intermixing processes in Be/W bilayers deposited on Si(001) substrates with Fe buffer layers. <i>Journal of Alloys and Compounds</i> , 2012, 512, 199-206.	5.5	10
66	X-ray photoelectron spectroscopy of pulsed laser deposited Pb(Zr,Ti)O ₃ . <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 1049-1052.	1.8	17
67	Atomic structure and reactivity of ferromagnetic Fe deposited on Si(001). <i>Journal of Materials Science</i> , 2012, 47, 1614-1620.	3.7	14
68	Telomerization of 1,3-Butadiene with Biomass-Derived Alcohols over a Heterogeneous Pd/TPPTS Catalyst Based on Layered Double Hydroxides. <i>ACS Catalysis</i> , 2011, 1, 526-536.	11.2	18
69	X-ray absorption fine structure investigations on heat-treated Cr-doped titania thin films. <i>Thin Solid Films</i> , 2011, 520, 1348-1352.	1.8	3
70	Biocatalytic microreactor incorporating HRP anchored on micro-/nano-lithographic patterns for flow oxidation of phenols. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2011, 69, 133-139.	1.8	28
71	Structural investigations of Ge nanoparticles embedded in an amorphous SiO ₂ matrix. <i>Journal of Nanoparticle Research</i> , 2011, 13, 221-232.	1.9	22
72	Significantly different contamination of atomically clean Si(001) when investigated by XPS and AES. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 1919-1924.	1.5	14

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73	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
74	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
75	Mesoporous Tin-Triflate Based Catalysts for Transesterification of Sunflower Oil. Topics in Catalysis, 2010, 53, 763-772.	2.8	6
76	One-Pot Synthesis of Menthol Catalyzed by a Highly Diastereoselective Au/MgF ₂ Catalyst. Angewandte Chemie - International Edition, 2010, 49, 8134-8138.	13.8	50
77	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
78	Cobalt-doped ZnO prepared by electrochemistry: Chemistry, morphology, and magnetism. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2517-2522.	1.8	11
79	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
80	Analysis of electron traps at the 4H-SiC/SiO ₂ interface; influence by nitrogen implantation prior to wet oxidation. Journal of Applied Physics, 2010, 108, 024503.	2.5	27
81	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
82	Novel Pd heterogeneous catalysts for cycloisomerisation of acetylenic carboxylic acids. Green Chemistry, 2010, 12, 2145.	9.0	23
83	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
84	Synthesis, structural characterization, and photocatalytic properties of iron-doped TiO ₂ aerogels. Journal of Materials Science, 2009, 44, 358-364.	3.7	52
85	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
86	Fe- and Eu-doped TiO ₂ Photocatalytical Materials Prepared by High Energy Ball Milling. Topics in Catalysis, 2009, 52, 544-556.	2.8	18
87	Photo-degradation activity of sputter-deposited nitrogen-doped titania thin films. Thin Solid Films, 2009, 518, 1040-1043.	1.8	4
88	Structural and photocatalytic properties of iron- and europium-doped TiO ₂ nanoparticles obtained under hydrothermal conditions. Materials Chemistry and Physics, 2008, 112, 146-153.	4.0	93
89	Structure, morphology and magnetic properties of Fe-Au core-shell nanoparticles. Surface Science, 2007, 601, 4352-4357.	1.9	34
90	Fe-doped TiO ₂ thin films. Surface Science, 2007, 601, 4479-4483.	1.9	23

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91	On the hydrophilicity of nitrogen-doped TiO ₂ thin films. <i>Surface Science</i> , 2007, 601, 4515-4520.	1.9	65
92	Low temperature two-dimensional behaviour of spin and orbital moments in Ni monolayers grown on Cu(001). <i>Surface Science</i> , 2007, 601, 4292-4296.	1.9	2
93	Preparation and characterization of increased-efficiency photocatalytic TiO ₂ ·xNx thin films. <i>Thin Solid Films</i> , 2007, 515, 8605-8610.	1.8	39
94	Thickness effect in Pb(Zr _{0.2} Ti _{0.8})O ₃ ferroelectric thin films grown by pulsed laser deposition. <i>Applied Surface Science</i> , 2006, 252, 4549-4552.	6.1	31
95	Increasing surface hydrophilicity of titania thin films by doping. <i>Applied Surface Science</i> , 2006, 252, 6122-6126.	6.1	39
96	Characterization of titania thin films prepared by reactive pulsed-laser ablation. <i>Surface Science</i> , 2006, 600, 4342-4346.	1.9	41
97	Comparative study of magnetism and interface composition in Fe/GaAs(100) and Fe/InAs(100). <i>Surface Science</i> , 2006, 600, 4200-4204.	1.9	14
98	Epitaxy and Magnetic Properties of Surfactant-Mediated Growth of bcc Cobalt. <i>Physical Review Letters</i> , 2005, 94, 187601.	7.8	25
99	Influence of the substrate surface termination on the properties of bcc-cobalt films: GaAs(110) versus Sb/GaAs(110). <i>Applied Surface Science</i> , 2004, 234, 468-474.	6.1	7
100	Resonant photoemission and XMCD on Mn-based systems. <i>Journal of Alloys and Compounds</i> , 2004, 362, 41-47.	5.5	2
101	Atomic structure and magnetic properties of Mn on InAs(1 0 0). <i>Applied Surface Science</i> , 2003, 212-213, 17-25.	6.1	13
102	A gas microstrip detector for XAS studies in the photon energy region 300–1500 eV. <i>Journal of Synchrotron Radiation</i> , 2003, 10, 455-460.	2.4	5
103	Magnetic V embedded in copper evidenced by x-ray magnetic circular dichroism. <i>Physical Review B</i> , 2003, 67, .	3.2	12
104	Growth and characterization of single crystalline NiMnSb thin films and epitaxial NiMnSb/MgO/NiMnSb(001) trilayers. <i>Physical Review B</i> , 2002, 65, .	3.2	30
105	Structural and magnetic properties of Cr in Cr/Ru(0001) multilayers. <i>Physical Review B</i> , 2002, 66, .	3.2	4
106	NiMnSb/MgO/NiMnSb heterostructures grown by MBE. <i>Journal of Magnetism and Magnetic Materials</i> , 2002, 240, 427-429.	2.3	4
107	Reactivity and magnetism of Fe/InAs(100) interfaces. <i>European Physical Journal B</i> , 2002, 28, 305-313.	1.5	24
108	X-ray magnetic circular dichroism, photoemission and RHEED studies of Fe/InAs(100) interfaces. <i>Surface Science</i> , 2001, 482-485, 1004-1009.	1.9	17

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109	Electron accumulation layer on clean In-terminated InAs(0 0 1)(4Å—2)-c(8Å—2) surface. Surface Science, 2001, 482-485, 587-592.	1.9	35
110	Na1sexcitations in vapor and solid sodium halides. Physical Review B, 2001, 63, .	3.2	10
111	Experimental evidence of long-range magnetic order in thec(2Å—2)MnCu(100)surface alloy. Physical Review B, 2001, 64, .	3.2	26
112	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
113	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
114	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
115	Structure of Fe layers grown on InAs(100). Applied Surface Science, 2000, 166, 137-142.	6.1	21
116	Ferromagnetic hcp Chromium in Cr/Ru(0001) Superlattices. Physical Review Letters, 2000, 85, 5344-5347.	7.8	23
117	Resonant excitation series at theKr3pandXe4pthresholds. Physical Review B, 1999, 60, 3995-4004.	3.2	13
118	Reducibility of ruthenium in relation with zeolite structure. Applied Surface Science, 1999, 141, 164-176.	6.1	43
119	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
120	Initial stage of the growth of Fe on Si(111)(1 Å— 1)H. Applied Surface Science, 1998, 123-124, 156-160.	6.1	13
121	S 2p excitation and fragmentation of sulfur aggregates. Journal of Chemical Physics, 1998, 109, 9280-9287.	3.0	25
122	Retractable miniature double pass cylindrical mirror analyzers. Review of Scientific Instruments, 1998, 69, 3805-3808.	1.3	4
123	Growth of Epitaxial Co Layers on Sb-Passivated GaAs(110) Substrates. Surface Review and Letters, 1998, 05, 279-283.	1.1	8
124	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
125	Atomic structure of the reactive Fe/Si(111)7Å—7 interface. Physical Review B, 1997, 55, R7315-R7318.	3.2	40
126	interface formation studied by photoelectron diffraction. Surface Science, 1997, 377-379, 856-860.	1.9	13

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127	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
128	K edge photoabsorption spectra in gas phase alkali halides. Physica B: Condensed Matter, 1995, 208-209, 115-116.	2.7	3
129	Polarized XAS experiments on magnetic rare earth clusters. Physica B: Condensed Matter, 1995, 208-209, 773-774.	2.7	2
130	Thermal Induced Evolution of Chlorine-Containing Precursors in Impregnated Pd/Al ₂ O ₃ Catalysts. Langmuir, 1995, 11, 2031-2040.	3.5	22
131	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
132	EXAFS characterization of Dy and Pd-Dy on alumina catalysts. Reaction Kinetics and Catalysis Letters, 1994, 52, 81-86.	0.6	2
133	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