

Alexander V Naumkin

List of Publications by Year in descending order

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126
papers

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331259

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2621
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#	ARTICLE	IF	CITATIONS
1	XPS study of silver and copper nanoparticles demonstrated selective anticancer, proapoptotic, and antibacterial properties. <i>Surface and Interface Analysis</i> , 2022, 54, 189-202.	0.8	8
2	Impact of iso/aliovalent dopants in ceria solid solutions for improved CO oxidation. <i>Molecular Catalysis</i> , 2022, 517, 112016.	1.0	1
3	Direct synthesis of tetraalkoxysilanes in a high-pressure mechanochemical reactor. <i>Reaction Chemistry and Engineering</i> , 2022, 7, 769-780.	1.9	6
4	Fabrication of a hollow sphere N,S co-doped bifunctional carbon catalyst for sustainable fixation of CO ₂ to cyclic carbonates. <i>Green Chemistry</i> , 2022, 24, 1673-1692.	4.6	42
5	Anionic Polymerization of Para-Diethynylbenzene: Synthesis of a Strictly Linear Polymer. <i>Polymers</i> , 2022, 14, 900.	2.0	3
6	Thiacalixarenes with Sulfur Functionalities at Lower Rim: Heavy Metal Ion Binding in Solution and 2D-Confined Space. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2341.	1.8	7
7	Platinum cross-linked chitosan hydrogels synthesized in water saturated with CO ₂ under high pressure. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50006.	1.3	4
8	Enhancement of 1Tâ€MoS ₂ Superambient Temperature Stability and Hydrogen Evolution Performance by Intercalating a Phenanthroline Monolayer. <i>ChemNanoMat</i> , 2021, 7, 447-456.	1.5	11
9	Gd-Bi-M-Ce-O (M = Cu, Zr, Ni, Co, Mn) ceria-based solid solutions for low temperature CO oxidation. <i>Ceramics International</i> , 2021, 47, 8142-8149.	2.3	5
10	Silver nanoparticles doped with silver cations and stabilized with maleic acid copolymers: specific structure and antimicrobial properties. <i>New Journal of Chemistry</i> , 2021, 45, 14513-14521.	1.4	5
11	Thermal Stability and Catalytic Activity of the MnOxâ€CeO ₂ and the MnOxâ€ZrO ₂ â€CeO ₂ Highly Dispersed Materials in the Carbon Monoxide Oxidation Reaction. <i>Inorganic Materials: Applied Research</i> , 2021, 12, 468-476.	0.1	6
12	Green approach for fabrication of bacterial cellulose-chitosan composites in the solutions of carbonic acid under high pressure CO ₂ . <i>Carbohydrate Polymers</i> , 2021, 258, 117614.	5.1	10
13	Sm(Nd) doped ceria materials for multifunctional application. <i>Ceramics International</i> , 2021, 47, 22201-22208.	2.3	6
14	Cellulose-Based Hydrogels and Aerogels Embedded with Silver Nanoparticles: Preparation and Characterization. <i>Gels</i> , 2021, 7, 82.	2.1	17
15	Reductive Amidation without an External Hydrogen Source Using Rhodium on Carbon Matrix as a Catalyst. <i>ChemCatChem</i> , 2020, 12, 112-117.	1.8	9
16	Polyazomethine and polyphenylene based on 1,2-bis(4-acetylbenzyl)-o-carborane. <i>Russian Chemical Bulletin</i> , 2020, 69, 1138-1147.	0.4	7
17	A Mechanistic Study of CO Oxidation on New Catalysts CeFe _{0.5} Sb _{1.5} O ₆ and PrFe _{0.5} Sb _{1.5} O ₆ Using the X-ray Photoelectron Spectroscopy Method. <i>Russian Journal of Inorganic Chemistry</i> , 2020, 65, 592-596.	0.3	4
18	Silver Composites of Ultradisperse Polytetrafluoroethylene and Its Fractions in Supercritical Carbon Dioxide: Synthesis and Structural Study. <i>Polymer Science - Series B</i> , 2020, 62, 125-136.	0.3	2

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19	New Carbon Nanofiber Composite Materials Containing Lanthanides and Transition Metals Based on Electrospun Polyacrylonitrile for High Temperature Polymer Electrolyte Membrane Fuel Cell Cathodes. <i>Polymers</i> , 2020, 12, 1340.	2.0	11
20	The mechanism of stabilization of silver nanoparticles by chitosan in carbonic acid solutions. <i>Colloid and Polymer Science</i> , 2020, 298, 1135-1148.	1.0	8
21	Chitosan aerogel containing silver nanoparticles: From metal-chitosan powder to porous material. <i>Polymer Testing</i> , 2020, 86, 106481.	2.3	17
22	A Study of the Surface of Polymer Film Components of Fenton Catalyst. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2020, 56, 75-81.	0.3	0
23	Silver/Chitosan Nanocomposites: Preparation and Characterization and Their Fungicidal Activity against Dairy Cattle Toxicosis <i>Penicillium expansum</i> . <i>Journal of Fungi (Basel, Switzerland)</i> , 2020, 6, 51.	1.5	20
24	Ion-induced Auger electrons contrast on cross-beam systems. <i>Semiconductor Science and Technology</i> , 2019, 34, 124005.	1.0	3
25	Effect of Interaction of Bacterial Cellulose with Gold Nanoparticles Obtained by Metal Vapor Synthesis. <i>Doklady Physical Chemistry</i> , 2019, 488, 146-150.	0.2	4
26	Probing of complex carbon nanofiber paper as gas-diffusion electrode for high temperature polymer electrolyte membrane fuel cell. <i>RSC Advances</i> , 2019, 9, 257-267.	1.7	19
27	Preparation and characterization of biomedical collagen-chitosan scaffolds with entrapped ibuprofen and silver nanoparticles. <i>Polymer Engineering and Science</i> , 2019, 59, 2479-2487.	1.5	27
28	Synthesis and Structure of New Pt(IV) Perfluorocarboxylate Complexes and Their Reactivity with Respect to Alkanes and Cycloalkanes. <i>Russian Journal of Inorganic Chemistry</i> , 2019, 64, 49-55.	0.3	2
29	Cardo Copolymers: A Friction-Chemical Structure Relationship. <i>Journal of Friction and Wear</i> , 2019, 40, 17-26.	0.1	4
30	The Antifriction Properties of Amorphous Poly(Arylene Ether Ketone) Copolymers with a Low Content of Cardo Groups. <i>Journal of Friction and Wear</i> , 2019, 40, 515-520.	0.1	2
31	Synthesis of TiH ₂ nanopowder via the Guen-Miller Flow-Levitation method and characterization. <i>Journal of Alloys and Compounds</i> , 2019, 778, 271-279.	2.8	22
32	INTERACTION IN POLYARYLATE - POLY(ARYLENE ETHER KETONE) MIXTURE AT HIGH-TEMPERATURE PROCESSING. <i>ChemChemTech</i> , 2019, 62, 147-154.	0.1	1
33	Bimetallic blends and chitosan nanocomposites: novel antifungal agents against cotton seedling damping-off. <i>European Journal of Plant Pathology</i> , 2018, 151, 57.	0.8	21
34	Eco-friendly preparation of a magnetic catalyst for glucose oxidation combining the properties of nanometal particles and specific enzyme. <i>Monatshefte für Chemie</i> , 2018, 149, 1179-1188.	0.9	8
35	XPS study of structural transformations in some Ni complexes. <i>Surface and Interface Analysis</i> , 2018, 50, 1154-1157.	0.8	3
36	Mechanochemistry - a new powerful green approach to the direct synthesis of alkoxysilanes. <i>Green Chemistry</i> , 2018, 20, 1962-1969.	4.6	23

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37	Tribochemical Processes in a Phenol Formaldehyde Polymer Modified by Polyformaldehyde Copolymer. <i>Journal of Friction and Wear</i> , 2018, 39, 462-468.	0.1	1
38	Effect of the Chemical Atmosphere of the Thermolysis of the Complex PdAg ₂ (OAc) ₄ (HOAc) ₄ on the Formation of Active Centers in Pd-Ag/CeO ₂ Catalysts for the Low-Temperature Oxidation of Carbon Monoxide. <i>Kinetics and Catalysis</i> , 2018, 59, 766-775.	0.3	3
39	Production of a Novel Material Based on a Collagen-Chitosan Composite and Ibuprofen in a Supercritical Medium. <i>Doklady Physical Chemistry</i> , 2018, 482, 130-133.	0.2	3
40	Bimetallic Au-Pt Nanocomposites in the CO Oxidation Reaction: New Synthetic Approach and Evolution in the Course of Catalysis. <i>Doklady Chemistry</i> , 2018, 483, 251-255.	0.2	0
41	Effect of the Chemical Structure of Heat-Resistant Thermoplastics on the Friction on Steel. <i>Doklady Chemistry</i> , 2018, 479, 58-63.	0.2	5
42	Influence of Ionizing Radiation on the Properties of a Nanodispersed PdO/CeO ₂ Catalyst in the Reaction of Low-Temperature Carbon Monoxide Oxidation. <i>High Energy Chemistry</i> , 2018, 52, 307-311.	0.2	0
43	Effect of the Molecular Weight of Polyarylene Ether Ketones on the Tribological Properties. <i>Journal of Friction and Wear</i> , 2018, 39, 114-120.	0.1	2
44	Perspective intermediate temperature ceria based catalysts for CO oxidation. <i>Applied Catalysis B: Environmental</i> , 2018, 236, 171-175.	10.8	26
45	Plasmon Resonance of Silver Nanoparticles as a Method of Increasing Their Antibacterial Action. <i>Antibiotics</i> , 2018, 7, 80.	1.5	43
46	Synthesis, structure, and properties of a Au/MnO _x -CeO ₂ nanocatalyst for low-temperature oxidation of carbon monoxide. <i>Inorganic Materials</i> , 2017, 53, 406-412.	0.2	6
47	The development of hybrid materials that combine polyamides with thienothiophene units and inorganic objects. <i>High Performance Polymers</i> , 2017, 29, 704-707.	0.8	4
48	Organoelement Coatings on Glass as Precursors for Biochip Technologies. <i>Macromolecular Symposia</i> , 2017, 375, 1700025.	0.4	1
49	New star-like polydimethylsiloxanes: synthesis, properties, and application. <i>Russian Chemical Bulletin</i> , 2017, 66, 1094-1098.	0.4	17
50	Synthesis and characterization of chitosan-copper nanocomposites and their fungicidal activity against two sclerotia-forming plant pathogenic fungi. <i>Journal of Nanostructure in Chemistry</i> , 2017, 7, 249-258.	5.3	63
51	Structural and frictional peculiarities of nanocrystalline thermally expanded graphite particles sonicated in water and glycerol. <i>Journal of Friction and Wear</i> , 2017, 38, 202-207.	0.1	4
52	Coatings and surfactants based on oligovinylsiloxanes. <i>Polymer Science - Series B</i> , 2017, 59, 248-256.	0.3	3
53	Friction of ultrathin Si, F-containing coatings. <i>Journal of Friction and Wear</i> , 2017, 38, 259-264.	0.1	0
54	Surface modification of epoxy resin by amphiphilic fluoroorganosiloxane copolymers. <i>Russian Chemical Bulletin</i> , 2016, 65, 1116-1118.	0.4	0

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55	Study on tribological properties of the DVâ€“FV polyarylate system. Journal of Friction and Wear, 2016, 37, 535-543.	0.1	1
56	Organosilicon fluoro-containing polymer brushes based on epoxy matrix: XPS analysis. Russian Chemical Bulletin, 2016, 65, 1072-1075.	0.4	3
57	Hybrid materials based on core-shell polyorganosilsesquioxanes modified with iron nanoparticles. Mendeleev Communications, 2016, 26, 187-190.	0.6	19
58	Tribochemical processes in epoxyorganic textoliteâ€“steel friction pair. Journal of Friction and Wear, 2016, 37, 15-22.	0.1	0
59	Effect of chemical structure of aramide and polyoxadiazole fibers on friction of organoplastics. Journal of Friction and Wear, 2016, 37, 351-357.	0.1	4
60	Evolution of active ingredients and catalytic properties of Pt-Sn/Al ₂ O ₃ catalysts in the selective deoxygenation reaction of vegetable oils. Petroleum Chemistry, 2016, 56, 607-615.	0.4	9
61	The mechanism of chemical modification of artificial fibers based on cellulose derivatives. Polymer Science - Series B, 2016, 58, 347-350.	0.3	1
62	Collagen-chitosan scaffold modified with Au and Ag nanoparticles: Synthesis and structure. Applied Surface Science, 2016, 366, 365-371.	3.1	37
63	Au/Ce _{0.72} Zr _{0.18} Pr _{0.1} O ₂ nanodisperse catalyst for oxidation of carbon monoxide. Russian Journal of Physical Chemistry A, 2016, 90, 166-172.	0.1	4
64	Metal-containing systems based on chitosan and a collagen-chitosan composite. Russian Chemical Bulletin, 2015, 64, 1663-1670.	0.4	11
65	X-ray photoelectron spectra of some Ni mono- and polynuclear complexes. Radiation Effects and Defects in Solids, 2015, 170, 218-228.	0.4	1
66	Mesoporic material from microcrystalline cellulose with gold nanoparticles: A new approach to metal-carrying polysaccharides. Mendeleev Communications, 2015, 25, 358-360.	0.6	13
67	Tribological studies for developing friction modifiers in the wheelâ€“rail system. Journal of Friction and Wear, 2015, 36, 468-475.	0.1	6
68	Platinum, palladium, and rhodium nanoparticles on the surface of graphene flakes. Russian Journal of Inorganic Chemistry, 2015, 60, 709-714.	0.3	11
69	Gd Zr Ti Ce _{1-x} â€“â€“O ₂ mesoporous catalysts for oxidation reactions. Surface Science, 2015, 642, L11-L15.	0.8	10
70	Fabrication and characterization of composites based on CeO ₂ nanoparticles and graphene. Inorganic Materials, 2015, 51, 848-853.	0.2	2
71	Functionalization and defunctionalization of single walled carbon nanotubes: Electrochemical and morphologic consequences. Journal of Electroanalytical Chemistry, 2015, 738, 27-34.	1.9	9
72	A comprehensive study of ultra-high molecular weight polyethylene modified by Î±-tocopherol after exposure to extremely high temperatures. Russian Chemical Bulletin, 2014, 63, 2527-2533.	0.4	1

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73	Effect of particle size and composition of powdered nanocrystalline molybdenum disulfide on its tribological behavior. <i>Journal of Friction and Wear</i> , 2014, 35, 330-338.	0.1	7
74	Dehydrogenation of isopropyl alcohol on modified cobalt catalyst. <i>Russian Journal of Physical Chemistry A</i> , 2014, 88, 768-773.	0.1	4
75	Cu@CeO ₂ composites: Synthesis from mixed sols. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 444, 159-164.	2.3	10
76	Fibroporous polytetrafluoroethylene modified with iron nanoparticles: Structure and electronic and magnetic properties. <i>Russian Journal of Physical Chemistry A</i> , 2013, 87, 985-991.	0.1	5
77	Diagnostics of gold-containing surgical-dressing materials with X-ray and synchrotron radiation. <i>Journal of Surface Investigation</i> , 2013, 7, 509-514.	0.1	5
78	Nature of initial acts of friction of ultrahigh molecular weight polyethylene with steel surface. <i>Journal of Friction and Wear</i> , 2013, 34, 120-128.	0.1	7
79	Active forms of oxygen as agents for electrochemical functionalization of SWCNTs. <i>Carbon</i> , 2013, 53, 188-196.	5.4	18
80	Ultradisperse catalytic layers supported by nanotubes and poly(diallyldimethylammonium)chloride polymer. <i>Russian Journal of Electrochemistry</i> , 2013, 49, 265-271.	0.3	5
81	Au-Ni and Au-Fe heterometallic systems: an X-ray photoelectron spectroscopy study. <i>Russian Chemical Bulletin</i> , 2013, 62, 2559-2566.	0.4	6
82	Dehydrogenation of isopropanol on a cerium-nickel catalyst. <i>Russian Journal of Physical Chemistry A</i> , 2012, 86, 1791-1794.	0.1	5
83	On the nature of functional groups in non-functionalized hypercrosslinked polystyrenes. <i>Reactive and Functional Polymers</i> , 2012, 72, 973-982.	2.0	47
84	Structure of mono- and bimetallic heterogeneous catalysts based on noble metals obtained by means of fluid technology and metal-vapor synthesis. <i>Russian Journal of Physical Chemistry A</i> , 2012, 86, 1602-1608.	0.1	7
85	Spectroscopic characterization of the electrochemical functionalization of single-walled carbon nanotubes in aqueous and organic media. <i>Carbon</i> , 2012, 50, 922-931.	5.4	8
86	Ion-induced modification of contact surfaces. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2012, 76, 669-673.	0.1	1
87	Reduced graphene oxide. <i>Inorganic Materials</i> , 2012, 48, 796-802.	0.2	128
88	Organometallic Pt precursor on graphite substrate: deposition from SC CO ₂ , reduction and morphology transformation as revealed by SFM. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	9
89	The role of the medium in electrochemical functionalization and dispersion of carbon nanotubes. <i>Russian Chemical Bulletin</i> , 2011, 60, 1071-1077.	0.4	1
90	Effect of different types of radiation on the composition of poly(phosphazene) surface. <i>Russian Chemical Bulletin</i> , 2011, 60, 1657-1662.	0.4	0

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91	X-ray photoelectron and Mössbauer spectroscopy studies of bimetallic 57Fe-Pd nanocomposites prepared by metal-vapor synthesis. Russian Journal of Physical Chemistry A, 2011, 85, 636-645.	0.1	7
92	Composite materials for medical purposes based on polyvinylpyrrolidone modified with ketoprofen and silver nanoparticles. Russian Journal of Physical Chemistry A, 2011, 85, 1190-1195.	0.1	11
93	Regeneration of Pd/TiO ₂ catalyst deactivated in reductive CCl ₄ transformations by the treatment with supercritical CO ₂ , ozone in supercritical CO ₂ or oxygen plasma. Journal of Supercritical Fluids, 2011, 58, 263-271.	1.6	21
94	Cyclohexane dehydrogenation on a copper-platinum catalyst. Russian Journal of Physical Chemistry A, 2010, 84, 1908-1912.	0.1	9
95	Categorization system of nanofillers to polymer composites. Journal of Friction and Wear, 2010, 31, 68-80.	0.1	18
96	Structured polyphenylenes as carriers of palladium nanoparticles used as selective hydrogenation catalysts. Polymer Science - Series B, 2010, 52, 49-56.	0.3	1
97	Synthesis of polyvinylpyrrolidone and its nanosilver-based polymer composites in supercritical carbon dioxide. Polymer Science - Series B, 2010, 52, 165-173.	0.3	12
98	Cu and Au nanocomposites in catalytic olefination reaction. Mendeleev Communications, 2010, 20, 200-202.	0.6	14
99	XPS/TEM characterisation of Pt _{1-x} Au _x /C cathode electrocatalysts prepared by metal vapour synthesis. Surface and Interface Analysis, 2010, 42, 559-563.	0.8	29
100	Polyphenylenes, Cross-Linked Through Pd-Carbene Complexes Formation, for Catalysis in Suzuki-Miyaura Reactions. Macromolecular Symposia, 2010, 296, 388-391.	0.4	3
101	DRIFT, XPS and XAS Investigation of Au-Ni/Al ₂ O ₃ Synergetic Catalyst for Allylbenzene Isomerization. Topics in Catalysis, 2009, 52, 344-350.	1.3	30
102	New Antimicrobial Materials Based on Polymers With Nanostructured Surface Modified by Organic Fullerene[60] Derivatives. Plasma Processes and Polymers, 2009, 6, S85.	1.6	3
103	Gold- and silver-containing fibroporous polytetrafluoroethylene obtained under laser irradiation, supercritical carbon dioxide treatment, and metal-vapor synthesis. Nanotechnologies in Russia, 2009, 4, 834-840.	0.7	6
104	The influence of plasma chemical treatment of a platinum catalyst on its activity in the dehydrogenation of cyclohexane. Russian Journal of Physical Chemistry A, 2009, 83, 1720-1726.	0.1	8
105	Effect of X-rays on the surface composition of polyphosphazene: X-ray photoelectron spectroscopic study. Polymer Science - Series A, 2009, 51, 537-541.	0.4	4
106	X-Ray photoelectron spectra of iron trimethylacetate complexes. Russian Journal of Inorganic Chemistry, 2008, 53, 1614-1620.	0.3	5
107	X-ray photoelectron spectra of polynuclear manganese complexes. Russian Journal of Inorganic Chemistry, 2008, 53, 1929-1933.	0.3	7
108	X-ray photoelectron spectra and structure of iron polynuclear complexes. Bulletin of the Russian Academy of Sciences: Physics, 2008, 72, 520-526.	0.1	1

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109	The effect of the chemical structure of polyfluorinated alcohols on the tribological properties of poly-ε-caproamide. <i>Journal of Friction and Wear</i> , 2008, 29, 39-44.	0.1	0
110	Carbon dioxide in the surface layers of ultrahigh molecular weight polyethylene. <i>Doklady Physical Chemistry</i> , 2008, 419, 68-72.	0.2	8
111	ULTRAHIGH MOLECULAR WEIGHT POLYETHYLENE MODIFIED WITH SILVER NANOPARTICLES PREPARED BY METAL-VAPOUR SYNTHESIS.. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	7
112	X-ray photoelectron spectra and electron structure of polynuclear cobalt complexes. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2007, 156-158, 200-203.	0.8	82
113	X-ray photoelectron spectra and structure of composites prepared via deposition of Au, Ni, and Au + Ni nanoparticles on SiO ₂ from colloidal solutions in triethylamine. <i>Inorganic Materials</i> , 2007, 43, 381-385.	0.2	21
114	Complexes of cobalt(II) halides with 2-(1H-pyrazol-1-yl)-4(3H)-pyrimidinone. <i>Russian Journal of Inorganic Chemistry</i> , 2007, 52, 1527-1529.	0.3	0
115	X-ray photoelectron spectra and structure of polynuclear nickel complexes. <i>Russian Journal of Inorganic Chemistry</i> , 2007, 52, 1781-1785.	0.3	8
116	An X-ray photoelectron spectroscopy study of the effect of sulfur compounds on antiwear properties of diesel fuels. <i>Petroleum Chemistry</i> , 2007, 47, 425-429.	0.4	0
117	An XPS study of the synergetic effect of gold and nickel supported on SiO ₂ in the catalytic isomerization of allylbenzene. <i>Mendeleev Communications</i> , 2007, 17, 268-270.	0.6	25
118	Fluorination of Carbon Nanostructures and Their Comparative Investigation by XPS and XAES Spectroscopy. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2006, 14, 287-296.	1.0	9
119	X-ray photoelectron spectra of cobalt trimethylacetates. <i>Doklady Chemistry</i> , 2006, 411, 234-239.	0.2	6
120	Relationship between the C KVV Auger line shape and layered structure of graphite. <i>Applied Surface Science</i> , 2005, 245, 128-134.	3.1	13
121	NIST data resources for surface analysis by X-ray photoelectron spectroscopy and Auger electron spectroscopy. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2001, 114-116, 1097-1102.	0.8	41
122	X-Ray photoelectron spectroscopy reference data for identification of the C ₃ N ₄ phase in carbon-nitrogen films. <i>Diamond and Related Materials</i> , 2000, 9, 1904-1907.	1.8	462
123	An XPS study of compositional changes induced by argon ion bombardment of the LaPO ₄ surface. <i>Vacuum</i> , 1996, 47, 67-71.	1.6	31
124	The effects of 6 keV Ar ⁺ ion bombardment on the surface composition of simple and complex titanium oxides. <i>Vacuum</i> , 1995, 46, 363-368.	1.6	7
125	Composition and chemical state of titanium nitride films obtained by different methods. <i>Surface and Coatings Technology</i> , 1994, 70, 9-17.	2.2	23
126	XPS studies of natural monazite and relative compounds under ion bombardment. <i>Applied Surface Science</i> , 1993, 72, 307-312.	3.1	11