

# Alexey Kondyurin

## List of Publications by Year in descending order

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144  
papers

2,658  
citations

218677

26  
h-index

243625

44  
g-index

145  
all docs

145  
docs citations

145  
times ranked

2931  
citing authors

#	ARTICLE	IF	CITATIONS
1	Substrate elasticity provides mechanical signals for the expansion of hemopoietic stem and progenitor cells. <i>Nature Biotechnology</i> , 2010, 28, 1123-1128.	17.5	244
2	Free radical functionalization of surfaces to prevent adverse responses to biomedical devices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14405-14410.	7.1	178
3	Surface plasma modification and tropoelastin coating of a polyurethane co-polymer for enhanced cell attachment and reduced thrombogenicity. <i>Biomaterials</i> , 2014, 35, 6797-6809.	11.4	74
4	Mechanisms for surface energy changes observed in plasma immersion ion implanted polyethylene: The roles of free radicals and oxygen-containing groups. <i>Polymer Degradation and Stability</i> , 2009, 94, 638-646.	5.8	63
5	Fourier transform Raman and Fourier transform infrared spectra of cross-linked polyurethaneurea films synthesized from solutions. <i>Journal of Raman Spectroscopy</i> , 2002, 33, 769-777.	2.5	62
6	Attachment of horseradish peroxidase to polytetrafluorethylene (teflon) after plasma immersion ion implantation. <i>Acta Biomaterialia</i> , 2008, 4, 1218-1225.	8.3	62
7	Carbon nanostructures for hard tissue engineering. <i>RSC Advances</i> , 2013, 3, 11058.	3.6	62
8	Etching and structural changes of polystyrene films during plasma immersion ion implantation from argon plasma. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2006, 251, 413-418.	1.4	57
9	Comparison of Protein Surface Attachment on Untreated and Plasma Immersion Ion Implantation Treated Polystyrene: Protein Islands and Carpet. <i>Langmuir</i> , 2007, 23, 2741-2746.	3.5	54
10	The attachment of catalase and poly-L-lysine to plasma immersion ion implantation-treated polyethylene. <i>Acta Biomaterialia</i> , 2007, 3, 695-704.	8.3	53
11	Adhesion of Polytetrafluorethylene modified by an ion beam. <i>Vacuum</i> , 1999, 52, 285-289.	3.5	52
12	Acetylene plasma polymerized surfaces for covalent immobilization of dense bioactive protein monolayers. <i>Surface and Coatings Technology</i> , 2009, 203, 1310-1316.	4.8	50
13	Biospectroscopy of Nanodiamond-Induced Alterations in Conformation of Intra- and Extracellular Proteins: A Nanoscale IR Study. <i>Analytical Chemistry</i> , 2016, 88, 7530-7538.	6.5	50
14	Moiré Patterns in Superimposed Nanoporous Thin Films Derived from Block-Copolymer Assemblies. <i>Nano Letters</i> , 2007, 7, 3628-3632.	9.1	45
15	Structure of polyethylene after pulse ion beam treatment. <i>Journal of Applied Polymer Science</i> , 1998, 69, 1071-1077.	2.6	44
16	Plasma immersion ion implantation of polyethylene. <i>Vacuum</i> , 2001, 64, 105-111.	3.5	40
17	Cell patterning via linker-free protein functionalization of an organic conducting polymer (polypyrrole) electrode. <i>Acta Biomaterialia</i> , 2012, 8, 2538-2548.	8.3	40
18	Plasma-based biofunctionalization of vascular implants. <i>Nanomedicine</i> , 2012, 7, 1907-1916.	3.3	40

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19	The use of plasma-activated covalent attachment of early domains of tropoelastin to enhance vascular compatibility of surfaces. <i>Biomaterials</i> , 2013, 34, 7584-7591.	11.4	37
20	Nano-Bio-Chemical Braille for Cells: The Regulation of Stem Cell Responses using Bio-Functional Surfaces. <i>Advanced Functional Materials</i> , 2015, 25, 193-205.	14.9	36
21	Plasma Ion Implantation of Silk Biomaterials Enabling Direct Covalent Immobilization of Bioactive Agents for Enhanced Cellular Responses. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 17605-17616.	8.0	36
22	Plasma immersion ion implantation of polyurethane shape memory polymer: Surface properties and protein immobilization. <i>Applied Surface Science</i> , 2017, 416, 686-695.	6.1	30
23	Effect of Low Molecular Weight Additives on Immobilization Strength, Activity, and Conformation of Protein Immobilized on PVC and UHMWPE. <i>Langmuir</i> , 2011, 27, 6138-6148.	3.5	29
24	Orientation and conformation of anti-CD34 antibody immobilised on untreated and plasma treated polycarbonate. <i>Acta Biomaterialia</i> , 2015, 19, 128-137.	8.3	28
25	Exploiting sensor geometry for enhanced gas sensing properties of fluorinated carbon nanotubes under humid environment. <i>Sensors and Actuators B: Chemical</i> , 2019, 281, 945-952.	7.8	28
26	Plasma Polymer Surfaces Compatible with a CMOS Process for Direct Covalent Enzyme Immobilization. <i>Plasma Processes and Polymers</i> , 2009, 6, 68-75.	3.0	27
27	Ion beam modification of polyethylene and adhesion to epoxy adhesive. <i>Vacuum</i> , 1996, 47, 1085-1087.	3.5	26
28	Polymerisation of composite materials in space environment for development of a Moon base. <i>Advances in Space Research</i> , 2006, 37, 109-115.	2.6	26
29	Hydrogel-Solid Hybrid Materials for Biomedical Applications Enabled by Surface-Embedded Radicals. <i>Advanced Functional Materials</i> , 2020, 30, 2004599.	14.9	26
30	Etching and structure changes in PMMA coating under argon plasma immersion ion implantation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2011, 269, 1361-1369.	1.4	25
31	A facile method to in situ formation of hydroxyapatite single crystal architecture for enhanced osteoblast adhesion. <i>Journal of Materials Chemistry</i> , 2012, 22, 19081.	6.7	25
32	Hybrid graphite film-carbon nanotube platform for enzyme immobilization and protection. <i>Carbon</i> , 2013, 65, 287-295.	10.3	25
33	Dewetting of thin polymer film on rough substrate: II. Experiment. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 065307.	2.8	24
34	Bio-Activation of Polyether Ether Ketone Using Plasma Immersion Ion Implantation: A Kinetic Model. <i>Plasma Processes and Polymers</i> , 2015, 12, 180-193.	3.0	24
35	Ordered HAp nanoarchitecture formed on HAp-TCP bioceramics by nanocarving and mineralization deposition and its potential use for guiding cell behaviors. <i>Journal of Materials Chemistry B</i> , 2013, 1, 2455.	5.8	23
36	Plasma-Activated Tropoelastin Functionalization of Zirconium for Improved Bone Cell Response. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 662-676.	5.2	23

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37	Polymerization in microgravity as a new process in space technology. <i>Acta Astronautica</i> , 2001, 48, 169-180.	3.2	22
38	Dewetting of thin polymer film on rough substrate: I. Theory. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 065306.	2.8	22
39	Mechanisms for Covalent Immobilization of Horseradish Peroxidase on Ion-Beam-Treated Polyethylene. <i>Scientifica</i> , 2012, 2012, 1-28.	1.7	22
40	Influence of pH on yeast immobilization on polystyrene surfaces modified by energetic ion bombardment. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 104, 145-152.	5.0	22
41	Depth-Resolved Structural and Compositional Characterization of Ion-Implanted Polystyrene that Enables Direct Covalent Immobilization of Biomolecules. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16793-16803.	3.1	21
42	Covalent Attachment and Bioactivity of Horseradish Peroxidase on Plasma-Polymerized Hexane Coatings. <i>Plasma Processes and Polymers</i> , 2008, 5, 727-736.	3.0	20
43	Surface attachment of horseradish peroxidase to nylon modified by plasma-immersion ion implantation. <i>Journal of Applied Polymer Science</i> , 2011, 120, 2891-2903.	2.6	20
44	Biointerface: protein enhanced stem cells binding to implant surface. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 2203-2215.	3.6	20
45	Plasma Ion Activated Expanded Polytetrafluoroethylene Vascular Grafts with a Covalently Immobilized Recombinant Human Tropoelastin Coating Reducing Neointimal Hyperplasia. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 1286-1297.	5.2	19
46	A sterilizable, biocompatible, tropoelastin surface coating immobilized by energetic ion activation. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20160837.	3.4	19
47	Enhanced biocompatibility of polyurethane-type shape memory polymers modified by plasma immersion ion implantation treatment and collagen coating: An in vivo study. <i>Materials Science and Engineering C</i> , 2019, 99, 863-874.	7.3	19
48	Ion implantation treatment of beads for covalent binding of molecules: Application to bioethanol production using thermophilic beta-glucosidase. <i>Enzyme and Microbial Technology</i> , 2014, 54, 20-24.	3.2	18
49	Pulse and continuous ion beam treatment of polyethylene. <i>Vacuum</i> , 2002, 68, 341-347.	3.5	17
50	Immobilisation of a fibrillin-1 fragment enhances the biocompatibility of PTFE. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 116, 544-552.	5.0	17
51	Microscopic unravelling of nano-carbon doping in MgB <sub>2</sub> superconductors fabricated by diffusion method. <i>Journal of Alloys and Compounds</i> , 2015, 644, 900-905.	5.5	17
52	Plasma mediated protein immobilisation enhances the vascular compatibility of polyurethane with tissue matched mechanical properties. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 045002.	3.3	17
53	The protein corona determines the cytotoxicity of nanodiamonds: implications of corona formation and its remodelling on nanodiamond applications in biomedical imaging and drug delivery. <i>Nanoscale Advances</i> , 2020, 2, 4798-4812.	4.6	17
54	Photopolymerisation of composite material in simulated free space environment at low Earth orbital flight. <i>European Polymer Journal</i> , 2006, 42, 2703-2714.	5.4	16

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55	Plasma immersion ion implantation of Pebax polymer. Nuclear Instruments & Methods in Physics Research B, 2006, 251, 407-412.	1.4	16
56	Ion-implanted polytetrafluoroethylene enhances <i>Saccharomyces cerevisiae</i> biofilm formation for improved immobilization. Journal of the Royal Society Interface, 2012, 9, 2923-2935.	3.4	16
57	Cluster of differentiation antibody microarrays on plasma immersion ion implanted polycarbonate. Materials Science and Engineering C, 2014, 35, 434-440.	7.3	16
58	Weakened foreign body response to medical polyurethane treated by plasma immersion ion implantation. Nuclear Instruments & Methods in Physics Research B, 2019, 440, 163-174.	1.4	16
59	POLYMERIZATION PROCESSES OF EPOXY PLASTIC IN SIMULATED FREE SPACE CONDITIONS. Acta Astronautica, 2001, 48, 109-113.	3.2	15
60	Etching and structure transformations in uncured epoxy resin under rf-plasma and plasma immersion ion implantation. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1568-1580.	1.4	15
61	Improved Multiprotein Microcontact Printing on Plasma Immersion Ion Implanted Polystyrene. ACS Applied Materials & Interfaces, 2018, 10, 227-237.	8.0	15
62	Electric field assisted ion exchange of silver in soda-lime glass: A study of ion depletion layers and interactions with potassium. Journal of Applied Physics, 2019, 125, .	2.5	15
63	Drug release from polyurethane coating modified by plasma immersion ion implantation. Journal of Biomaterials Science, Polymer Edition, 2004, 15, 145-159.	3.5	14
64	Crosslinked Polyurethane Coating on Vascular Stents for Enhanced X-ray Contrast. Journal of Bioactive and Compatible Polymers, 2005, 20, 77-93.	2.1	14
65	Polymerization Processes of Epoxy Matrix Composites under Simulated Free Space Conditions. High Performance Polymers, 2004, 16, 163-175.	1.8	13
66	Curing of liquid epoxy resin in plasma discharge. European Polymer Journal, 2004, 40, 1915-1923.	5.4	13
67	CelB and $\beta$ -glucosidase immobilization for carboxymethyl cellulose hydrolysis. RSC Advances, 2013, 3, 23604.	3.6	13
68	Cell growing on ion implanted polytetrafluoroethylene. Applied Surface Science, 2014, 314, 670-678.	6.1	13
69	Fabrication of Antimicrobial Poly(propylene carbonate) Film by Plasma Surface Modification. Industrial & Engineering Chemistry Research, 2017, 56, 12578-12587.	3.7	13
70	Ion beam and laser processing for hydroxyapatite formation. Vacuum, 2004, 76, 339-342.	3.5	12
71	Nanostructured Carbonized Thin Films Produced by Plasma Immersion Ion Implantation of Block Copolymer Assemblies. Plasma Processes and Polymers, 2008, 5, 155-160.	3.0	12
72	Immobilization of bioactive plasmin reduces the thrombogenicity of metal surfaces. Colloids and Surfaces B: Biointerfaces, 2015, 136, 944-954.	5.0	12

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73	Covalent linker-free immobilization of conjugatable oligonucleotides on polypropylene surfaces. RSC Advances, 2016, 6, 83328-83336.	3.6	12
74	Study of the nature of interaction of EPDM-40 rubber with an epoxy adhesive. Journal of Adhesion Science and Technology, 1992, 6, 1137-1145.	2.6	11
75	Interrupted plasma treatment of EPDM-40 rubber. Journal of Applied Polymer Science, 1993, 48, 1417-1423.	2.6	11
76	Study of the Reaction of Epoxides with Carboxylic Acids by IR and Raman Spectrometry. Journal of Raman Spectroscopy, 1996, 27, 413-418.	2.5	11
77	Adhesion of UV-treated rubbers to epoxy adhesives. Journal of Applied Polymer Science, 1996, 62, 1-8.	2.6	11
78	Large-size space laboratory for biological orbit experiments. Advances in Space Research, 2001, 28, 665-671.	2.6	11
79	Calcium phosphate formation on plasma immersion ion implanted low density polyethylene and polytetrafluorethylene surfaces. Journal of Materials Science: Materials in Medicine, 2008, 19, 1145-1153.	3.6	11
80	Effect of plasma immersion ion implantation on polycaprolactone with various molecular weights and crystallinity. Journal of Materials Science: Materials in Medicine, 2018, 29, 5.	3.6	11
81	Reducing Water Permeability while Maintaining Transparency of PET: A Plasma Immersion Ion Implantation Study. Plasma Processes and Polymers, 2008, 5, 834-839.	3.0	10
82	Graded metal carbon protein binding films prepared by hybrid cathodic arc " Glow discharge plasma assisted chemical vapor deposition. Surface and Coatings Technology, 2015, 265, 222-234.	4.8	10
83	Structural Analysis and Protein Functionalization of Electroconductive Polypyrrole Films Modified by Plasma Immersion Ion Implantation. ACS Biomaterials Science and Engineering, 2017, 3, 2247-2258.	5.2	10
84	Creation of biological module for self-regulating ecological system by the way of polymerization of composite materials in free space. Advances in Space Research, 2004, 34, 1585-1591.	2.6	9
85	Radiation damage of polyethylene exposed in the stratosphere at an altitude of 40 km. Polymer Degradation and Stability, 2013, 98, 1526-1536.	5.8	9
86	Nanotoxicity of nanodiamond in two and three dimensional liver models. International Journal of Nanotechnology, 2017, 14, 133.	0.2	9
87	Covalent Biofunctionalization of the Inner Surfaces of a Hollow-Fiber Capillary Bundle Using Packed-Bed Plasma Ion Implantation. ACS Applied Materials & Interfaces, 2020, 12, 32163-32174.	8.0	9
88	An influence of the viscosity of polymer substrate on ion beam synthesis of iron granular films. Nuclear Instruments & Methods in Physics Research B, 2003, 206, 1115-1119.	1.4	8
89	Plasma immersion ion implantation of a two-phase blend of polysulfone and polyvinylpyrrolidone. Materials and Design, 2016, 97, 381-391.	7.0	8
90	Bound ("Glassy") Rubber as a Free Radical Cross-linked Rubber Layer on a Carbon Black. Materials, 2018, 11, 1992.	2.9	8

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91	Biological impact of nanodiamond particles – label free, high-resolution methods for nanotoxicity assessment. <i>Nanotoxicology</i> , 2019, 13, 1210-1226.	3.0	8
92	Molecular dynamics of antimony trichloride in crystals of bimolecular menshutkin complexes with benzene, diphenyl and phenanthrene by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 1991, 22, 249-252.	2.5	7
93	Direct Curing of Polymer Construction Material in Simulated Earth's Moon Surface Environment. <i>Journal of Spacecraft and Rockets</i> , 2011, 48, 378-384.	1.9	7
94	Plasma processing of PDMS based spinal implants for covalent protein immobilization, cell attachment and spreading. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 178.	3.6	7
95	Extracellular Vesicle-Based Coatings Enhance Bioactivity of Titanium Implants – SurfEV. <i>Nanomaterials</i> , 2021, 11, 1445.	4.1	7
96	Curing of large prepreg shell in solar synchronous Low Earth Orbit: Precession flight regimes. <i>Acta Astronautica</i> , 2018, 151, 342-347.	3.2	6
97	Plasma-Activated Substrate with a Tropoelastin Anchor for the Maintenance and Delivery of Multipotent Adult Progenitor Cells. <i>Macromolecular Bioscience</i> , 2019, 19, 1800233.	4.1	5
98	Curing of Composite Materials for an Inflatable Construction on the Moon. , 2012, , 503-518.		5
99	Inter- and intramolecular force constants of some trihalides of the fifth group in the gas, liquid and solid. <i>Journal of Raman Spectroscopy</i> , 1993, 24, 825-831.	2.5	4
100	Vibrational spectra of some diisocyanates in the liquid state or on EPDM-40 rubber surface. <i>Journal of Applied Polymer Science</i> , 1994, 54, 1385-1393.	2.6	4
101	EPDM Rubber Modified by Nitrogen Plasma Immersion Ion Implantation. <i>Materials</i> , 2018, 11, 657.	2.9	4
102	Increasing binding density of yeast cells by control of surface charge with allylamine grafting to ion modified polymer surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014, 122, 537-544.	5.0	3
103	Biointerfaces: Nano-Bio-Chemical Braille for Cells: The Regulation of Stem Cell Responses using Bio-Functional Surfaces ( <i>Adv. Funct. Mater.</i> 2/2015). <i>Advanced Functional Materials</i> , 2015, 25, 339-339.	14.9	3
104	Chemical toughening of glass by potassium diffusion: how non-bridging oxygen and a surface calcium barrier limit the process. <i>Journal of the Ceramic Society of Japan</i> , 2019, 127, 98-104.	1.1	3
105	Interactions of ion beam with polymer. , 2008, , 1-10.		3
106	Intermolecular vibrations of water molecules in the crystalline hydrates of MCl <sub>2</sub> ·2H <sub>2</sub> O (M=Cu, Fe,) <small>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5</small>	2.5	2
107	HADES tracking system: first in-beam experience. <i>IEEE Transactions on Nuclear Science</i> , 2004, 51, 939-942.	2.0	2
108	Enhancement of hydroxyapatite formation by laser-liquid-solid interaction. , 2004, , .		2

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109	Structure of polymers after ion beam treatment. , 2008, , 75-145.		2
110	Interaction of ion beam with polymer. , 2008, , 29-73.		2
111	Electrically conductive hexagonally ordered nanoporous membranes produced by ion-beam induced carbonization of block-copolymer precursors. Nanotechnology, 2011, 22, 305603.	2.6	2
112	Ion implanted, radical-rich surfaces for the rapid covalent immobilization of active biomolecules. , 2013, , .		2
113	TCT-433 Plasmin Immobilization for Reduced Thrombogenicity of Metallic Implants. Journal of the American College of Cardiology, 2014, 64, B127.	2.8	2
114	Deployment of Large-Size Shell Constructions by Internal Pressure. Mechanics of Composite Materials, 2015, 51, 629-636.	1.4	2
115	Hybrid Carbon-Based Nanostructured Platforms for the Advanced Bioreactors. Journal of Nanoscience and Nanotechnology, 2015, 15, 10074-10090.	0.9	2
116	Biological and medical applications. , 2015, , 185-216.		2
117	First Stratospheric Flight of Preimpregnated Uncured Epoxy Matrix. Journal of Spacecraft and Rockets, 2016, 53, 1019-1027.	1.9	2
118	Biological and medical applications. , 2008, , 205-241.		2
119	Fragment method for the study of hydrogen bonding in polymers. Vibrational Spectroscopy, 1991, 2, 183-186.	2.2	1
120	Study of molecular dynamics of antimony trichloride in some complexes with aromatic hydrocarbons. Journal of Molecular Structure, 1992, 267, 247-254.	3.6	1
121	Ion beam patterning of solid surfaces for hydroxyapatite deposition. Vacuum, 2004, 76, 335-338.	3.5	1
122	With reference to article: "Impact of the first-generation drug-eluting stent implantation on periprocedural myocardial injury in patients with stable angina pectoris" Dewetting problem. Journal of Cardiology, 2013, 62, 265-266.	1.9	1
123	Ion beam synthesis. , 2015, , 175-183.		1
124	Bio-functionalisation of polyether ether ketone using plasma immersion ion implantation. Proceedings of SPIE, 2015, , .	0.8	1
125	Interactions of energetic ions with polymers: chemical picture. , 2015, , 29-67.		1
126	Cost-Effective Creation of Biofunctionalised Scaffolds, Tailored to Function as Stem Cell Niches for Expansion, Transport and Delivery. Cytotherapy, 2016, 18, S60.	0.7	1



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127	Sources for ion beam treatment. , 2008, , 11-28.		1
128	Wetting. , 2008, , 147-160.		1
129	Computational Modeling of the Curing of a Frame of an Inflatable Satellite Antenna in Near-Earth Orbit. Journal of Applied Mechanics and Technical Physics, 2021, 62, 1234-1242.	0.5	1
130	Influence of the non-diagonal part of the potential energy matrix in the SbC13 molecule on the results of calculating the force constants of intermolecular interaction. Journal of Raman Spectroscopy, 1992, 23, 589-593.	2.5	0
131	Interphase Interaction in Adhesion Bonds of Rubbers with a Quinol-Type Curing Adhesive. International Polymer Science and Technology, 2001, 28, 18-22.	0.1	0
132	Adhesion of quinone adhesive to rubbers. Journal of Adhesion, 2002, 78, 431-441.	3.0	0
133	Ion-beam-modified surfaces as substrates for hydroxyapatite growth induced by laser-liquid-solid interaction. , 2004, , .		0
134	Ion beam synthesis. , 2008, , 195-204.		0
135	Adhesion. , 2008, , 161-178.		0
136	Universal Biomolecule Binding Interlayers Created by Energetic Ion Bombardment. Materials Research Society Symposia Proceedings, 2011, 1354, 3.	0.1	0
137	Polymerization of liquid polymer matrix in free-space environment. , 2015, , 231-259.		0
138	Adhesion. , 2015, , 145-160.		0
139	Hardness. , 2015, , 161-173.		0
140	To Avoid A Foreign Body Reaction For Polyurethane Implants Modified By High-Energy Ions. , 2021, , .		0
141	Protection in an aggressive environment. , 2008, , 243-260.		0
142	Hardness. , 2008, , 179-194.		0
143	Polymerization of liquid polymer matrix in free space environment. , 2008, , 261-302.		0
144	Curing of Construction Composite Materials on Asteroids. , 2013, , 379-401.		0