Anton M Manakhov

List of Publications by Year
in descending order

51 papers	1,331 citations	236833 25 h-index	377752 34 g-index
51 all docs	51 docs citations	51 times ranked	1695 citing authors

#	Article	IF	Citations
1	Structural and Surface Compatibility Study of Modified Electrospun Poly(Îµ-caprolactone) (PCL) Composites for Skin Tissue Engineering. AAPS PharmSciTech, 2017, 18, 72-81.	1.5	152
2	Optimization of Cyclopropylamine Plasma Polymerization toward Enhanced Layer Stability in Contact with Water. Plasma Processes and Polymers, 2014, 11, 532-544.	1.6	56
3	Antibacterial biocompatible PCL nanofibers modified by COOH-anhydride plasma polymers and gentamicin immobilization. Materials and Design, 2018, 153, 60-70.	3.3	54
4	Atmospheric Pressure Pulsed Plasma Copolymerisation of Maleic Anhydride and Vinyltrimethoxysilane: Influence of Electrical Parameters on Chemistry, Morphology and Deposition Rate of the Coatings. Plasma Processes and Polymers, 2012, 9, 435-445.	1.6	51
5	Plasma-Coated Polycaprolactone Nanofibers with Covalently Bonded Platelet-Rich Plasma Enhance Adhesion and Growth of Human Fibroblasts. Nanomaterials, 2019, 9, 637.	1.9	47
6	Carboxyl-anhydride and amine plasma coating of PCL nanofibers to improve their bioactivity. Materials and Design, 2017, 132, 257-265.	3.3	45
7	High-Performance Ammonia Gas Sensors Based on Plasma Treated Carbon Nanostructures. IEEE Sensors Journal, 2017, 17, 1964-1970.	2.4	43
8	Development of effective QCM biosensors by cyclopropylamine plasma polymerization and antibody immobilization using cross-linking reactions. Surface and Coatings Technology, 2016, 290, 116-123.	2.2	40
9	Carboxyl-rich coatings deposited by atmospheric plasma co-polymerization of maleic anhydride and acetylene. Surface and Coatings Technology, 2016, 295, 37-45.	2.2	37
10	Comparison of Different Approaches to Surface Functionalization of Biodegradable Polycaprolactone Scaffolds. Nanomaterials, 2019, 9, 1769.	1.9	37
11	Deposition of stable amine coating onto polycaprolactone nanofibers by low pressure cyclopropylamine plasma polymerization. Thin Solid Films, 2015, 581, 7-13.	0.8	36
12	Immobilization of Platelet-Rich Plasma onto COOH Plasma-Coated PCL Nanofibers Boost Viability and Proliferation of Human Mesenchymal Stem Cells. Polymers, 2017, 9, 736.	2.0	35
13	Well-Blended PCL/PEO Electrospun Nanofibers with Functional Properties Enhanced by Plasma Processing. Polymers, 2020, 12, 1403.	2.0	34
14	Plasma Enhanced CVD of Organosilicon Thin Films on Electrospun Polymer Nanofibers. Plasma Processes and Polymers, 2015, 12, 1231-1243.	1.6	33
15	XPS depth profiling of derivatized amine and anhydride plasma polymers: Evidence of limitations of the derivatization approach. Applied Surface Science, 2017, 394, 578-585.	3.1	33
16	The adhesion of normal human dermal fibroblasts to the cyclopropylamine plasma polymers studied by holographic microscopy. Surface and Coatings Technology, 2016, 295, 70-77.	2.2	31
17	Pristine and Antibiotic-Loaded Nanosheets/Nanoneedles-Based Boron Nitride Films as a Promising Platform to Suppress Bacterial and Fungal Infections. ACS Applied Materials & Interfaces, 2020, 12, 42485-42498.	4.0	30
18	A Novel Dry Chemical Path Way for Diene and Dienophile Surface Functionalization toward Thermally Responsive Metalâ€"Polymer Adhesion. ACS Applied Materials & Interfaces, 2013, 5, 8446-8456.	4.0	29

#	Article	IF	Citations
19	The robust bio-immobilization based on pulsed plasma polymerization of cyclopropylamine and glutaraldehyde coupling chemistry. Applied Surface Science, 2016, 360, 28-36.	3.1	28
20	Cyclopropylamine plasma polymers deposited onto quartz crystal microbalance for biosensing application. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 2801-2808.	0.8	27
21	Synergistic and long-lasting antibacterial effect of antibiotic-loaded TiCaPCON-Ag films against pathogenic bacteria and fungi. Materials Science and Engineering C, 2018, 90, 289-299.	3.8	27
22	Grafting of carboxyl groups using CO2/C2H4/Ar pulsed plasma: Theoretical modeling and XPS derivatization. Applied Surface Science, 2018, 435, 1220-1227.	3.1	27
23	Cyclopropylamine plasma polymers for increased cell adhesion and growth. Plasma Processes and Polymers, 2017, 14, 1600123.	1.6	26
24	Diene functionalisation of atmospheric plasma copolymer thin films. Surface and Coatings Technology, 2011, 205, S466-S469.	2.2	25
25	Cell type specific adhesion to surfaces functionalised by amine plasma polymers. Scientific Reports, 2020, 10, 9357.	1.6	25
26	Cell proliferation on modified DLC thin films prepared by plasma enhanced chemical vapor deposition. Biointerphases, 2015, 10, 029520.	0.6	23
27	BN nanoparticle/Ag hybrids with enhanced catalytic activity: theory and experiments. Catalysis Science and Technology, 2018, 8, 1652-1662.	2.1	23
28	Bioactive TiCaPCON-coated PCL nanofibers as a promising material for bone tissue engineering. Applied Surface Science, 2019, 479, 796-802.	3.1	23
29	Stability and Electronic Properties of PtPd Nanoparticles via MD and DFT Calculations. Journal of Physical Chemistry C, 2018, 122, 18070-18076.	1.5	19
30	Synthetic routes, structure and catalytic activity of Ag/BN nanoparticle hybrids toward CO oxidation reaction. Journal of Catalysis, 2018, 368, 217-227.	3.1	18
31	Antibacterial Performance of TiCaPCON Films Incorporated with Ag, Pt, and Zn: Bactericidal Ions Versus Surface Microgalvanic Interactions. ACS Applied Materials & Interfaces, 2018, 10, 24406-24420.	4.0	18
32	Homogeneity and penetration depth of atmospheric pressure plasma polymerization onto electrospun nanofibrous mats. Applied Surface Science, 2019, 471, 835-841.	3.1	18
33	Determination of NH 2 concentration on 3-aminopropyl tri-ethoxy silane layers and cyclopropylamine plasma polymers by liquid-phase derivatization with 5-iodo 2-furaldehyde. Applied Surface Science, 2017, 414, 390-397.	3.1	16
34	TiCaPCON-Supported Pt- and Fe-Based Nanoparticles and Related Antibacterial Activity. ACS Applied Materials & Interfaces, 2019, 11, 28699-28719.	4.0	16
35	Analysis of epoxy functionalized layers synthesized by plasma polymerization of allyl glycidyl ether. Physical Chemistry Chemical Physics, 2018, 20, 20070-20077.	1.3	13
36	Hydrogen absorption by Ti-implanted Zr-1Nb alloy. International Journal of Hydrogen Energy, 2018, 43, 2484-2491.	3.8	12

#	Article	IF	Citations
37	Effect of Hydrogen Exposure on Mechanical and Tribological Behavior of CrxN Coatings Deposited at Different Pressures on IN718. Materials, 2017, 10, 563.	1.3	11
38	Oxidation Behavior of Zrâ€“1Nb Corroded in Air at 400 Â°C after Plasma Immersion Titanium Implantation. Metals, 2018, 8, 27.	1.0	11
39	Different concepts for creating antibacterial yet biocompatible surfaces: Adding bactericidal element, grafting therapeutic agent through COOH plasma polymer and their combination. Applied Surface Science, 2021, 556, 149751.	3.1	11
40	Biodegradable Nanohybrid Materials as Candidates for Self-Sanitizing Filters Aimed at Protection from SARS-CoV-2 in Public Areas. Molecules, 2022, 27, 1333.	1.7	11
41	Electrospun Biodegradable Nanofibers Coated Homogenously by Cu Magnetron Sputtering Exhibit Fast Ion Release. Computational and Experimental Study. Membranes, 2021, 11, 965.	1.4	11
42	XPS Modeling of Immobilized Recombinant Angiogenin and Apoliprotein A1 on Biodegradable Nanofibers. Nanomaterials, 2020, 10, 879.	1.9	9
43	Ag-Contained Superabsorbent Curdlanâ€“Chitosan Foams for Healing Wounds in a Type-2 Diabetic Mice Model. Pharmaceutics, 2022, 14, 724.	2.0	9
44	Plasmaâ€coated PCL scaffolds with immobilized plateletâ€rich plasma enhance the wound healing in diabetics mice. Plasma Processes and Polymers, 2022, 19, .	1.6	8
45	Structural evolution of Ag/BN hybrids via a polyol-assisted fabrication process and their catalytic activity in CO oxidation. Catalysis Science and Technology, 2019, 9, 6460-6470.	2.1	7
46	Microstructure, chemical and biological performance of boron-modified TiCaPCON films. Applied Surface Science, 2019, 465, 486-497.	3.1	7
47	Computational Design of Gas Sensors Based on V3S4 Monolayer. Nanomaterials, 2022, 12, 774.	1.9	7
48	Functionalized Nanomembranes and Plasma Technologies for Produced Water Treatment: A Review. Polymers, 2022, 14, 1785.	2.0	7
49	Plasma Surface Polymerized and Biomarker Conjugated Boron Nitride Nanoparticles for Cancer-Specific Therapy: Experimental and Theoretical Study. Nanomaterials, 2019, 9, 1658.	1.9	6
50	Antibacterial activity of therapeutic agent-immobilized nanostructured TiCaPCON films against antibiotic-sensitive and antibiotic-resistant Escherichia coli strains. Surface and Coatings Technology, 2021, 405, 126538.	2.2	5
51	Adhesion and Proliferation of Mesenchymal Stem Cells on Plasma-Coated Biodegradable Nanofibers. Journal of Composites Science, 2022, 6, 193.	1.4	4