

Vaclav Svorcik

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7458958/publications.pdf>

Version: 2024-02-01

510
papers

11,605
citations

46918

47
h-index

66788

78
g-index

518
all docs

518
docs citations

518
times ranked

11479
citing authors

#	ARTICLE	IF	CITATIONS
1	Modulation of cell adhesion, proliferation and differentiation on materials designed for body implants. <i>Biotechnology Advances</i> , 2011, 29, 739-767.	6.0	797
2	Methods of Gold and Silver Nanoparticles Preparation. <i>Materials</i> , 2020, 13, 1.	1.3	351
3	Stem cells: their source, potency and use in regenerative therapies with focus on adipose-derived stem cells – a review. <i>Biotechnology Advances</i> , 2018, 36, 1111-1126.	6.0	343
4	Versatile Application of Nanocellulose: From Industry to Skin Tissue Engineering and Wound Healing. <i>Nanomaterials</i> , 2019, 9, 164.	1.9	253
5	Modification of surface properties of high and low density polyethylene by Ar plasma discharge. <i>Polymer Degradation and Stability</i> , 2006, 91, 1219-1225.	2.7	169
6	Surface Modification of Polymer Substrates for Biomedical Applications. <i>Materials</i> , 2017, 10, 1115.	1.3	146
7	Properties of gold nanostructures sputtered on glass. <i>Nanoscale Research Letters</i> , 2011, 6, 96.	3.1	125
8	Nano-structured and functionalized surfaces for cytocompatibility improvement and bactericidal action. <i>Biotechnology Advances</i> , 2015, 33, 1120-1129.	6.0	125
9	Effect of plasma treatment on cellulose fiber. <i>Cellulose</i> , 2013, 20, 953-961.	2.4	117
10	Cellulose-based materials as scaffolds for tissue engineering. <i>Cellulose</i> , 2013, 20, 2263-2278.	2.4	107
11	Surface characterization of plasma treated polymers for applications as biocompatible carriers. <i>EXPRESS Polymer Letters</i> , 2013, 7, 535-545.	1.1	104
12	Progressive approach for metal nanoparticle synthesis. <i>Materials Letters</i> , 2012, 89, 47-50.	1.3	91
13	Gold Coating of Poly(ethylene terephthalate) Modified by Argon Plasma. <i>Plasma Processes and Polymers</i> , 2007, 4, 69-76.	1.6	90
14	Antimicrobial Treatment of Polymeric Medical Devices by Silver Nanomaterials and Related Technology. <i>International Journal of Molecular Sciences</i> , 2017, 18, 419.	1.8	88
15	Improved adhesion and growth of human osteoblast-like MG 63 cells on biomaterials modified with carbon nanoparticles. <i>Diamond and Related Materials</i> , 2007, 16, 2133-2140.	1.8	87
16	Surface Modification of Biopolymers by Argon Plasma and Thermal Treatment. <i>Plasma Processes and Polymers</i> , 2012, 9, 197-206.	1.6	84
17	Adhesion and proliferation of human endothelial cells on photochemically modified polytetrafluoroethylene. <i>Biomaterials</i> , 2003, 24, 5139-5144.	5.7	82
18	Metal-organic framework (MOF-5) coated SERS active gold gratings: A platform for the selective detection of organic contaminants in soil. <i>Analytica Chimica Acta</i> , 2019, 1068, 70-79.	2.6	77

#	ARTICLE	IF	CITATIONS
19	Noble Metal Nanostructures Influence of Structure and Environment on Their Optical Properties. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-15.	1.5	76
20	Modification of surface properties of polyethylene by Ar plasma discharge. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 244, 365-372.	0.6	72
21	Fluorine ion-implanted polystyrene improves growth and viability of vascular smooth muscle cells in culture. <i>Journal of Biomedical Materials Research Part B</i> , 2000, 49, 369-379.	3.0	69
22	Argon plasma irradiation of polypropylene. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 2111-2114.	0.6	69
23	The Effect of Silver Grating and Nanoparticles Grafting for LSP-SPP Coupling and SERS Response Intensification. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10569-10577.	1.5	69
24	Molecular mechanisms of improved adhesion and growth of an endothelial cell line cultured on polystyrene implanted with fluorine ions. <i>Biomaterials</i> , 2000, 21, 1173-1179.	5.7	68
25	Surface Plasmon Polaritons on Silver Gratings for Optimal SERS Response. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9506-9512.	1.5	67
26	Polymer nanostructures for bioapplications induced by laser treatment. <i>Biotechnology Advances</i> , 2018, 36, 839-855.	6.0	67
27	Cell microarrays on photochemically modified polytetrafluoroethylene. <i>Biomaterials</i> , 2005, 26, 5572-5580.	5.7	66
28	Comparison of glow argon plasma-induced surface changes of thermoplastic polymers. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 83-88.	0.6	66
29	Silver release and antimicrobial properties of PMMA films doped with silver ions, nano-particles and complexes. <i>Materials Science and Engineering C</i> , 2015, 49, 534-540.	3.8	66
30	Precise cancer detection via the combination of functionalized SERS surfaces and convolutional neural network with independent inputs. <i>Sensors and Actuators B: Chemical</i> , 2020, 308, 127660.	4.0	66
31	Pretreatment-free selective and reproducible SERS-based detection of heavy metal ions on DTPA functionalized plasmonic platform. <i>Sensors and Actuators B: Chemical</i> , 2017, 253, 830-838.	4.0	65
32	Plasma activated polymers grafted with cysteamine improving surfaces cytocompatibility. <i>Polymer Degradation and Stability</i> , 2014, 101, 1-9.	2.7	63
33	Dual-Action Flexible Antimicrobial Material: Switchable Self-Cleaning, Antifouling, and Smart Drug Release. <i>Advanced Functional Materials</i> , 2019, 29, 1901880.	7.8	63
34	Temperature-responsive PLLA/PNIPAM nanofibers for switchable release. <i>Materials Science and Engineering C</i> , 2017, 72, 293-300.	3.8	58
35	Gold nano-wires and nano-layers at laser-induced nano-ripples on PET. <i>Applied Surface Science</i> , 2010, 256, 2205-2209.	3.1	55
36	Adhesion and proliferation of cultured human aortic smooth muscle cells on polystyrene implanted with N+, F+ and Ar+ ions: correlation with polymer surface polarity and carbonization. <i>Biomaterials</i> , 1996, 17, 1121-1126.	5.7	54

#	ARTICLE	IF	CITATIONS
37	Annealing of sputtered gold nano-structures. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 102, 747-751.	1.1	54
38	Helicene-SPP-Based Chiral Plasmonic Hybrid Structure: Toward Direct Enantiomers SERS Discrimination. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 1555-1562.	4.0	54
39	Cytocompatibility of Ar ⁺ plasma treated and Au nanoparticle-grafted PE. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009, 267, 1904-1910.	0.6	53
40	Polymethylmethacrylate doped with porphyrin and silver nanoparticles as light-activated antimicrobial material. <i>RSC Advances</i> , 2014, 4, 50624-50630.	1.7	53
41	Antibacterial wound dressing: plasma treatment effect on chitosan impregnation and in situ synthesis of silver chloride on cellulose surface. <i>RSC Advances</i> , 2015, 5, 17690-17699.	1.7	53
42	Surface modification of Au and Ag plasmonic thin films via diazonium chemistry: Evaluation of structure and properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 516, 274-285.	2.3	53
43	Cell adhesion on polytetrafluoroethylene modified by UV-irradiation in an ammonia atmosphere. <i>Journal of Biomedical Materials Research - Part A</i> , 2003, 67A, 130-137.	2.1	52
44	Stabilization of sputtered gold and silver nanoparticles in PEG colloid solutions. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	52
45	Thickness dependence of refractive index and optical gap of PMMA layers prepared under electrical field. <i>Journal of Materials Science: Materials in Electronics</i> , 2008, 19, 363-367.	1.1	51
46	Early stages of growth of gold layers sputter deposited on glass and silicon substrates. <i>Nanoscale Research Letters</i> , 2012, 7, 241.	3.1	51
47	Structure formation in UV-laser ablated poly-ethylene-terephthalate (PET). <i>Applied Physics A: Solids and Surfaces</i> , 1991, 53, 330-331.	1.4	50
48	Ablation and water etching of poly(ethylene) modified by argon plasma. <i>Polymer Degradation and Stability</i> , 2007, 92, 1645-1649.	2.7	50
49	PTFE surface modification by Ar plasma and its characterization. <i>Vacuum</i> , 2012, 86, 643-647.	1.6	50
50	Tailoring of PEEK bioactivity for improved cell interaction: plasma treatment in action. <i>RSC Advances</i> , 2015, 5, 41428-41436.	1.7	50
51	Flexible SERS substrate for portable Raman analysis of biosamples. <i>Applied Surface Science</i> , 2018, 458, 95-99.	3.1	50
52	Antibacterial properties of modified biodegradable PHB non-woven fabric. <i>Materials Science and Engineering C</i> , 2016, 65, 364-368.	3.8	49
53	Nanostructuring of polymethylpentene by plasma and heat treatment for improved biocompatibility. <i>Polymer Degradation and Stability</i> , 2012, 97, 1075-1082.	2.7	48
54	Antibacterial properties of green-synthesized noble metal nanoparticles. <i>Materials Letters</i> , 2013, 113, 59-62.	1.3	47

#	ARTICLE	IF	CITATIONS
55	PEGylated gold nanoparticles: Stability, cytotoxicity and antibacterial activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 560, 26-34.	2.3	47
56	AFM surface morphology investigation of ion beam modified polyimide. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1997, 122, 663-667.	0.6	46
57	Characterization of evaporated and sputtered thin Au layers on poly(ethylene terephthalate). <i>Journal of Applied Polymer Science</i> , 2006, 99, 1698-1704.	1.3	46
58	Fast and All-Optical Hydrogen Sensor Based on Gold-Coated Optical Fiber Functionalized with Metal-Organic Framework Layer. <i>ACS Sensors</i> , 2019, 4, 3133-3140.	4.0	46
59	Cell adhesion on artificial materials for tissue engineering. <i>Physiological Research</i> , 2004, 53 Suppl 1, S35-45.	0.4	45
60	Annealing of gold nanostructures sputtered on glass substrate. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 102, 605-610.	1.1	44
61	Angle dependent laser nanopatterning of poly(ethylene terephthalate) surfaces. <i>Applied Surface Science</i> , 2011, 257, 6021-6025.	3.1	44
62	Regular pattern formation on surface of aromatic polymers and its cytocompatibility. <i>Applied Surface Science</i> , 2016, 370, 131-141.	3.1	44
63	Ultrasensitive and reproducible SERS platform of coupled Ag grating with multibranching Au nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14761-14769.	1.3	44
64	Unprecedented plasmon-induced nitroxide-mediated polymerization (PI-NMP): a method for preparation of functional surfaces. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12414-12419.	5.2	42
65	Surface ablation of PLLA induced by KrF excimer laser. <i>Applied Surface Science</i> , 2013, 283, 438-444.	3.1	41
66	Laser-induced periodic surface structures on polymers for formation of gold nanowires and activation of human cells. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 295-300.	1.1	41
67	Smart, Piezo-Responsive Polyvinylidene fluoride/Polymethylmethacrylate Surface with Triggerable Water/Oil Wettability and Adhesion. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37461-37469.	4.0	41
68	Label-free surface-enhanced Raman spectroscopy with artificial neural network technique for recognition photoinduced DNA damage. <i>Biosensors and Bioelectronics</i> , 2019, 145, 111718.	5.3	41
69	Plasmon-Induced Water Splitting through Flexible Hybrid 2D Architecture up to Hydrogen from Seawater under NIR Light. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 28110-28119.	4.0	41
70	Deposition of gold nano-particles and nano-layers on polyethylene modified by plasma discharge and chemical treatment. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009, 267, 2484-2488.	0.6	40
71	Fullerene C ₆₀ and hybrid C ₆₀ /Ti films as substrates for adhesion and growth of bone cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 2252-2261.	0.8	39
72	Ablation and water etching of plasma-treated polymers. <i>Radiation Effects and Defects in Solids</i> , 2008, 163, 779-788.	0.4	39

#	ARTICLE	IF	CITATIONS
73	Polyethylene naphthalate as an excellent candidate for ripple nanopatterning. <i>Applied Surface Science</i> , 2013, 285, 885-892.	3.1	39
74	Adhesion and proliferation of rat vascular smooth muscle cells (VSMC) on polyethylene implanted with O+ and C+ ions. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2001, 12, 817-834.	1.9	38
75	Grafting of bovine serum albumin proteins on plasma-modified polymers for potential application in tissue engineering. <i>Nanoscale Research Letters</i> , 2014, 9, 161.	3.1	38
76	Light-activated polymethylmethacrylate nanofibers with antibacterial activity. <i>Materials Science and Engineering C</i> , 2016, 64, 229-235.	3.8	38
77	Characterization of thin gold layers on polyethyleneterephthalate: transition from discontinuous to continuous, homogenous layer. <i>Applied Physics A: Materials Science and Processing</i> , 2002, 75, 541-544.	1.1	37
78	Cell Adhesion and Proliferation on Plasma-Treated and Poly(ethylene glycol)-Grafted Polyethylene. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 743-754.	1.4	37
79	Porphyrin-silver nanoparticles hybrids: Synthesis, characterization and antibacterial activity. <i>Materials Science and Engineering C</i> , 2019, 102, 192-199.	3.8	37
80	Enantioselective SERS sensing of pseudoephedrine in blood plasma biomatrix by hierarchical mesoporous Au films coated with a homochiral MOF. <i>Biosensors and Bioelectronics</i> , 2021, 180, 113109.	5.3	37
81	Surface properties and biocompatibility of ion-implanted polymers. <i>Journal of Materials Chemistry</i> , 1995, 5, 27-30.	6.7	36
82	Characterization of carbon nanolayers flash evaporated on PET and PTFE. <i>Carbon</i> , 2009, 47, 1770-1778.	5.4	36
83	Surface characterization and antibacterial response of silver nanowire arrays supported on laser-treated polyethylene naphthalate. <i>Materials Science and Engineering C</i> , 2017, 72, 512-518.	3.8	36
84	Basic electrochemical properties of sputtered gold film electrodes. <i>Electrochimica Acta</i> , 2017, 251, 452-460.	2.6	36
85	Round-shape gold nanoparticles: effect of particle size and concentration on <i>Arabidopsis thaliana</i> root growth. <i>Nanoscale Research Letters</i> , 2018, 13, 95.	3.1	36
86	Express and portable label-free DNA detection and recognition with SERS platform based on functional Au grating. <i>Applied Surface Science</i> , 2019, 470, 219-227.	3.1	36
87	Carbon Nanostructures, Nanolayers, and Their Composites. <i>Nanomaterials</i> , 2021, 11, 2368.	1.9	36
88	Cell proliferation on UV-excimer lamp modified and grafted polytetrafluoroethylene. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 217, 307-313.	0.6	35
89	Gold coatings on polyethyleneterephthalate nano-patterned by F2 laser irradiation. <i>Applied Surface Science</i> , 2008, 254, 3585-3590.	3.1	35
90	Grafting of gold nanoparticles and nanorods on plasma-treated polymers by thiols. <i>Journal of Materials Science</i> , 2012, 47, 6297-6304.	1.7	35

#	ARTICLE	IF	CITATIONS
91	Poly-L-lactic acid modified by etching and grafting with gold nanoparticles. <i>Journal of Materials Science</i> , 2013, 48, 5871-5879.	1.7	35
92	Enhanced adherence of mouse fibroblast and vascular cells to plasma modified polyethylene. <i>Materials Science and Engineering C</i> , 2015, 52, 259-266.	3.8	35
93	SERS platform for detection of lipids and disease markers prepared using modification of plasmonic-active gold gratings by lipophilic moieties. <i>Sensors and Actuators B: Chemical</i> , 2018, 265, 182-192.	4.0	35
94	Improved Adhesion, Growth and Maturation of Vascular Smooth Muscle Cells on Polyethylene Grafted with Bioactive Molecules and Carbon Particles. <i>International Journal of Molecular Sciences</i> , 2009, 10, 4352-4374.	1.8	34
95	EUV micropatterning for biocompatibility control of PET. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 100, 511-516.	1.1	34
96	Silver nanowires prepared on PET structured by laser irradiation. <i>Materials Letters</i> , 2014, 117, 184-187.	1.3	34
97	Cytotoxicity of noble metal nanoparticles sputtered into glycerol. <i>Materials Letters</i> , 2015, 158, 351-354.	1.3	34
98	Amino acids grafting of Ar ⁺ ions modified PE. <i>Radiation Physics and Chemistry</i> , 2001, 60, 89-93.	1.4	33
99	Properties of Au nanolayers on polyethyleneterephthalate and polytetrafluoroethylene. <i>Surface and Interface Analysis</i> , 2009, 41, 741-745.	0.8	33
100	Properties of Au nanolayer sputtered on polyethyleneterephthalate. <i>Materials Letters</i> , 2010, 64, 611-613.	1.3	33
101	Plasma treated polyethylene grafted with adhesive molecules for enhanced adhesion and growth of fibroblasts. <i>Materials Science and Engineering C</i> , 2013, 33, 1116-1124.	3.8	33
102	Controlled biopolymer roughness induced by plasma and excimer laser treatment. <i>EXPRESS Polymer Letters</i> , 2013, 7, 950-958.	1.1	33
103	Nanostructured silver coatings on polyimide and their antibacterial response. <i>Materials Letters</i> , 2015, 145, 87-90.	1.3	33
104	Smart Component for Switching of Plasmon Resonance by External Electric Field. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 225-231.	4.0	33
105	Influence of dehydration on the dielectric and structural properties of organically modified montmorillonite and halloysite nanotubes. <i>Applied Clay Science</i> , 2017, 147, 19-27.	2.6	33
106	Large-scale, Ultrasensitive, Highly Reproducible and Reusable Smart SERS Platform Based on PNIPAA-grafted Gold Grating. <i>ChemNanoMat</i> , 2017, 3, 135-144.	1.5	33
107	Structure and biocompatibility of ion beam modified polyethylene. <i>Journal of Materials Science: Materials in Medicine</i> , 1997, 8, 435-440.	1.7	31
108	"Soft and rigid" dithiols and Au nanoparticles grafting on plasma-treated polyethyleneterephthalate. <i>Nanoscale Research Letters</i> , 2011, 6, 607.	3.1	31

#	ARTICLE	IF	CITATIONS
109	Cell adhesion and proliferation on polyethylene grafted with Au nanoparticles. Nuclear Instruments & Methods in Physics Research B, 2012, 272, 391-395.	0.6	31
110	Gold nanolayer and nanocluster coatings induced by heat treatment and evaporation technique. Nanoscale Research Letters, 2013, 8, 249.	3.1	31
111	Polymer surface patterning by laser scanning. Applied Physics B: Lasers and Optics, 2013, 110, 539-549.	1.1	31
112	Ripple polystyrene nano-pattern induced by KrF laser. EXPRESS Polymer Letters, 2014, 8, 459-466.	1.1	31
113	Plasmon Catalysis on Bimetallic Surface – Selective Hydrogenation of Alkynes to Alkanes or Alkenes. Journal of Physical Chemistry C, 2018, 122, 26613-26622.	1.5	31
114	Dual Mode Chip Enantioselective Express Discrimination of Chiral Amines via Wettability-Based Mobile Application and Portable Surface-Enhanced Raman Spectroscopy Measurements. ACS Sensors, 2019, 4, 1032-1039.	4.0	31
115	Characterization and cytocompatibility of carbon layers prepared by photo-induced chemical vapor deposition. Thin Solid Films, 2007, 515, 6765-6772.	0.8	30
116	Fullerene C60 films of continuous and micropatterned morphology as substrates for adhesion and growth of bone cells. Diamond and Related Materials, 2009, 18, 578-586.	1.8	30
117	Au nanolayers deposited on polyethyleneterephthalate and polytetrafluorethylene degraded by plasma discharge. Surface and Interface Analysis, 2007, 39, 79-85.	0.8	29
118	Biocompatibility of plasma nanostructured biopolymers. Nuclear Instruments & Methods in Physics Research B, 2013, 307, 642-646.	0.6	29
119	Surface Plasmon-Polariton: A Novel Way To Initiate Azide – Alkyne Cycloaddition. Langmuir, 2019, 35, 2023-2032.	1.6	29
120	Colonization of ion-modified polyethylene with vascular smooth muscle cells in vitro. Biomaterials, 2002, 23, 2989-2996.	5.7	28
121	Gold coating of polyethylene modified by argon plasma discharge. Polymer Engineering and Science, 2006, 46, 1326-1332.	1.5	28
122	Preparation of periodic surface structures on doped poly(methyl metacrylate) films by irradiation with KrF excimer laser. Nanoscale Research Letters, 2014, 9, 591.	3.1	28
123	Gold, Silver and Carbon Nanoparticles Grafted on Activated Polymers for Biomedical Applications. Journal of Nanoscience and Nanotechnology, 2015, 15, 10053-10073.	0.9	28
124	Comparison of KrF and ArF excimer laser treatment of biopolymer surface. Applied Surface Science, 2015, 339, 144-150.	3.1	28
125	Plasma treatment of the surface of poly(hydroxybutyrate) foil and non-woven fabric and assessment of the biological properties. Reactive and Functional Polymers, 2015, 95, 71-79.	2.0	28
126	Nanostructured Materials for Artificial Tissue Replacements. International Journal of Molecular Sciences, 2020, 21, 2521.	1.8	28

#	ARTICLE	IF	CITATIONS
127	Polypyrrole-Based Nanorobots Powered by Light and Glucose for Pollutant Degradation in Water. ACS Applied Materials & Interfaces, 2021, 13, 16173-16181.	4.0	28
128	Degradation of PET, PEEK and PI induced by irradiation with 150keV Ar+ and 1.76MeV He+ ions. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 245-249.	0.6	27
129	Fast and Reproducible Wettability Switching on Functionalized PVDF/PMMA Surface Controlled by External Electric Field. Advanced Materials Interfaces, 2017, 4, 1600886.	1.9	27
130	Can Plasmon Change Reaction Path? Decomposition of Unsymmetrical Iodonium Salts as an Organic Probe. Journal of Physical Chemistry Letters, 2020, 11, 5770-5776.	2.1	27
131	RBS, XPS, and TEM study of metal and polymer interface modified by plasma treatment. Vacuum, 2007, 82, 307-310.	1.6	26
132	Characterisation of Ni+ implanted PEEK, PET and PI. Nuclear Instruments & Methods in Physics Research B, 2009, 267, 1549-1552.	0.6	26
133	Properties of polyimide, polyetheretherketone and polyethyleneterephthalate implanted by Ni ions to high fluences. Nuclear Instruments & Methods in Physics Research B, 2012, 272, 396-399.	0.6	26
134	Surface Modification of Biodegradable Poly(L-lactic Acid) by Argon Plasma: Fibroblasts and Keratinocytes in the Spotlight. Plasma Processes and Polymers, 2014, 11, 1057-1067.	1.6	26
135	Plasmon-Assisted Activation and Grafting by Iodonium Salt: Functionalization of Optical Fiber Surface. Advanced Materials Interfaces, 2018, 5, 1800725.	1.9	26
136	Regular surface grating on doped polymer induced by laser scanning. Applied Physics Letters, 2009, 95, 173103.	1.5	25
137	Polytetrafluorethylene-Au as a substrate for surface-enhanced Raman spectroscopy. Nanoscale Research Letters, 2011, 6, 366.	3.1	25
138	Au nanoparticles grafted on plasma treated polymers. Journal of Materials Science, 2011, 46, 7917-7922.	1.7	25
139	Nano-structuring of PTFE surface by plasma treatment, etching, and sputtering with gold. Journal of Nanoparticle Research, 2011, 13, 2929-2938.	0.8	25
140	Cytocompatibility of polymers grafted by activated carbon nano-particles. Carbon, 2014, 69, 361-371.	5.4	25
141	Plasmon-Polariton Induced, α -RAFT Polymerization, as a Way toward Creation of Grafted Polymer Films with Thickness Precisely Controlled by Self-Limiting Mechanism. Advanced Materials Interfaces, 2018, 5, 1801042.	1.9	25
142	Optimization of silver nanowire formation on laser processed PEN: Surface properties and antibacterial effects. Applied Surface Science, 2019, 473, 516-526.	3.1	25
143	Application of a 2D Molybdenum Telluride in SERS Detection of Biorelevant Molecules. ACS Applied Materials & Interfaces, 2020, 12, 47774-47783.	4.0	25
144	Gold nanoparticles deposited on glass: physicochemical characterization and cytocompatibility. Nanoscale Research Letters, 2013, 8, 252.	3.1	24

#	ARTICLE	IF	CITATIONS
145	Properties of silver nanostructure-coated PTFE and its biocompatibility. <i>Nanoscale Research Letters</i> , 2013, 8, 388.	3.1	24
146	Preparation and characterization of fully separated gold nanowire arrays. <i>Applied Surface Science</i> , 2013, 264, 443-447.	3.1	24
147	Formation and antibacterial action of Pt and Pd nanoparticles sputtered into liquid. <i>Micro and Nano Letters</i> , 2014, 9, 778-781.	0.6	24
148	Immobilization of silver nanoparticles on polyethylene terephthalate. <i>Nanoscale Research Letters</i> , 2014, 9, 305.	3.1	24
149	Surface modification of oxidized cellulose haemostat by argon plasma treatment. <i>Cellulose</i> , 2014, 21, 2445-2456.	2.4	24
150	Plasma activated perfluoroethylenepropylene for cytocompatibility enhancement. <i>Polymer Degradation and Stability</i> , 2016, 130, 277-287.	2.7	24
151	Polarity, resistivity and biocompatibility of polyethylene doped with carbon black. <i>Journal of Materials Science Letters</i> , 1995, 14, 1723-1724.	0.5	23
152	Lattice parameter and expected density of Au nano-structures sputtered on glass. <i>Materials Letters</i> , 2010, 64, 1160-1162.	1.3	23
153	Tunable release of silver nanoparticles from temperature-responsive polymer blends. <i>Reactive and Functional Polymers</i> , 2015, 93, 163-169.	2.0	23
154	Antibacterial properties of palladium nanostructures sputtered on polyethylene naphthalate. <i>RSC Advances</i> , 2015, 5, 73767-73774.	1.7	23
155	Synthesis, Characterization, and Antimicrobial Activity of Near-IR Photoactive Functionalized Gold Multibranching Nanoparticles. <i>ChemistryOpen</i> , 2017, 6, 254-260.	0.9	23
156	Surface roughness in action – Cells in opposition. <i>Materials Science and Engineering C</i> , 2017, 76, 818-826.	3.8	23
157	Electron beam modification of polyethylene and polystyrene. <i>Journal of Applied Polymer Science</i> , 1997, 64, 2529-2533.	1.3	22
158	Self-organized gold nanostructures on laser patterned PET. <i>Surface and Coatings Technology</i> , 2011, 206, 517-521.	2.2	22
159	Annealing of gold nanostructures sputtered on polytetrafluoroethylene. <i>Nanoscale Research Letters</i> , 2011, 6, 588.	3.1	22
160	Surface properties of polymers treated with F ₂ laser. <i>Surface and Interface Analysis</i> , 2012, 44, 296-300.	0.8	22
161	Laser-assisted immobilization of colloid silver nanoparticles on polyethyleneterephthalate. <i>Applied Surface Science</i> , 2017, 420, 661-668.	3.1	22
162	Spatially selective modification of PLLA surface: From hydrophobic to hydrophilic or to repellent. <i>Applied Surface Science</i> , 2017, 397, 226-234.	3.1	22

#	ARTICLE	IF	CITATIONS
163	Preparation of Selective and Reproducible SERS Sensors of Hg ²⁺ Ions via a Sunlight-Induced Thiol-ene Reaction on Gold Gratings. <i>Sensors</i> , 2019, 19, 2110.	2.1	22
164	Free volume-limited diffusion in ion-modified polymers. <i>Journal of Applied Polymer Science</i> , 1996, 61, 1097-1100.	1.3	21
165	Synthesis of grafted polyethylene by ion beam modification. <i>Polymer Degradation and Stability</i> , 1997, 58, 143-147.	2.7	21
166	Cell adhesion on modified polyethylene. <i>Journal of Materials Science</i> , 2002, 37, 1183-1188.	1.7	21
167	Au-nanoparticles grafted on plasma treated PE. <i>Radiation Physics and Chemistry</i> , 2010, 79, 315-317.	1.4	21
168	Cytocompatibility of amine functionalized carbon nanoparticles grafted on polyethylene. <i>Materials Science and Engineering C</i> , 2016, 60, 394-401.	3.8	21
169	Surface modification of polyethylene and polypropylene by ion implantation. <i>Journal of Applied Polymer Science</i> , 1993, 49, 1939-1942.	1.3	20
170	Modification of poly(ether ether ketone) by ion irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 283-287.	0.6	20
171	Preparation, aging and temperature stability of PEGylated gold nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 523, 91-97.	2.3	20
172	Surface plasmon-polariton triggering of Ti ₃ C ₂ T _x MXene catalytic activity for hydrogen evolution reaction enhancement. <i>Journal of Materials Chemistry A</i> , 2021, 9, 17770-17779.	5.2	20
173	Physically Switchable Antimicrobial Surfaces and Coatings: General Concept and Recent Achievements. <i>Nanomaterials</i> , 2021, 11, 3083.	1.9	20
174	Covalent functionalization of Ti ₃ C ₂ T MXene flakes with Gd-DTPA complex for stable and biocompatible MRI contrast agent. <i>Chemical Engineering Journal</i> , 2022, 446, 136939.	6.6	20
175	Ion Implantation into Polyethylene. <i>Journal of the Electrochemical Society</i> , 1993, 140, 542-544.	1.3	19
176	Mechanism of conductivity in metal-polymer-metal structures. <i>Applied Physics A: Materials Science and Processing</i> , 1999, 68, 479-482.	1.1	19
177	Electrokinetic Potential for Characterization of Nanosstructured Solid Flat Surfaces. <i>Journal of Nano Research</i> , 0, 25, 31-39.	0.8	19
178	Oriented gold ripple-like structures on poly-L-lactic acid. <i>Applied Surface Science</i> , 2014, 321, 503-510.	3.1	19
179	Silver Nanoparticles Stabilized Using Chitosan Films: Preparation, Properties and Antibacterial Activity. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 10120-10126.	0.9	19
180	Tuning of PEDOT:PSS Properties Through Covalent Surface Modification. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017, 55, 378-387.	2.4	19

#	ARTICLE	IF	CITATIONS
181	Advanced Design of Microfluidic Chip Based on SPP-LSP Plasmonic Coupling for SERS Detection with High Sensitivity and Reliability. <i>Journal of Physical Chemistry C</i> , 2019, 123, 30492-30498.	1.5	19
182	Plasmon-active optical fiber functionalized by metal organic framework for pesticide detection. <i>Talanta</i> , 2020, 208, 120480.	2.9	19
183	Plasmon-assisted grafting of anisotropic nanoparticles – spatially selective surface modification and the creation of amphiphilic SERS nanoprobos. <i>Nanoscale</i> , 2020, 12, 14581-14588.	2.8	19
184	Plasmon-assisted MXene grafting: tuning of surface termination and stability enhancement. <i>2D Materials</i> , 2021, 8, 045037.	2.0	19
185	Temperature dependence of the permittivity of polymer composites. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001, 39, 831-834.	2.4	18
186	Pattern formation in PMMA film induced by electric field. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2009, 47, 1131-1135.	2.4	18
187	A novel method for biopolymer surface nanostructuring by platinum deposition and subsequent thermal annealing. <i>Nanoscale Research Letters</i> , 2012, 7, 671.	3.1	18
188	The characterization of PEEK, PET and PI implanted with Co ions to high fluences. <i>Applied Surface Science</i> , 2013, 275, 311-315.	3.1	18
189	Sandwiched gold/PNIPAm/gold microstructures for smart plasmonics application: towards the high detection limit and Raman quantitative measurements. <i>Analyst</i> , 2017, 142, 2974-2981.	1.7	18
190	Polypyrrole-coated cellulose nanofibers: influence of orientation, coverage and electrical stimulation on SH-SY5Y behavior. <i>Journal of Materials Chemistry B</i> , 2019, 7, 6500-6507.	2.9	18
191	A breath of fresh air for atmospheric CO ₂ utilisation: a plasmon-assisted preparation of cyclic carbonate at ambient conditions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8462-8469.	5.2	18
192	Oxygen incorporation in polyethylene and polypropylene implanted with F ⁺ , As ⁺ and I ⁺ ions at high dose. <i>Applied Physics A: Solids and Surfaces</i> , 1994, 58, 349-352.	1.4	17
193	Preparation of rib channel waveguides on polymer in electric field. <i>Thin Solid Films</i> , 2010, 519, 1452-1457.	0.8	17
194	A study of the degradation of polymers irradiated by Cn ⁺ and On ⁺ 9.6 ÅMeV heavy ions. <i>Polymer Degradation and Stability</i> , 2015, 122, 110-121.	2.7	17
195	Patterning of ultrathin polymethylmethacrylate films by in-situ photodirecting of the Marangoni flow. <i>Applied Surface Science</i> , 2017, 394, 562-568.	3.1	17
196	Preparation of alloyed and –core-shell–Au/Ag bimetallic nanostructures on glass substrate by solid state dewetting. <i>Journal of Alloys and Compounds</i> , 2020, 829, 154627.	2.8	17
197	Smart recycling of PET to sorbents for insecticides through in situ MOF growth. <i>Applied Materials Today</i> , 2021, 22, 100910.	2.3	17
198	Design of hybrid Au grating/TiO ₂ structure for NIR enhanced photo-electrochemical water splitting. <i>Chemical Engineering Journal</i> , 2022, 443, 136440.	6.6	17

#	ARTICLE	IF	CITATIONS
199	Permittivity of polyethylene and polyethyleneterephthalate. <i>Journal of Materials Science Letters</i> , 2000, 19, 1843-1845.	0.5	16
200	Adhesion and proliferation of keratinocytes on ion beam modified polyethylene. <i>Journal of Materials Science: Materials in Medicine</i> , 2000, 11, 655-660.	1.7	16
201	Ripple-like structure on PLLA induced by gold deposition and thermal treatment. <i>Materials Letters</i> , 2012, 79, 4-6.	1.3	16
202	Surface morphology and optical properties of porphyrin/Au and Au/porphyrin/Au systems. <i>Nanoscale Research Letters</i> , 2013, 8, 547.	3.1	16
203	Adhesion, Growth, and Maturation of Vascular Smooth Muscle Cells on Low-Density Polyethylene Grafted with Bioactive Substances. <i>BioMed Research International</i> , 2013, 2013, 1-18.	0.9	16
204	One-step preparation of antimicrobial silver nanoparticles in polymer matrix. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	16
205	Copper nanoparticles functionalized PE: Preparation, characterization and magnetic properties. <i>Applied Surface Science</i> , 2016, 390, 728-734.	3.1	16
206	LIPSS Structures Induced on Graphene-Polystyrene Composite. <i>Materials</i> , 2019, 12, 3460.	1.3	16
207	LIPSS with gold nanoclusters prepared by combination of heat treatment and KrF exposure. <i>Applied Surface Science</i> , 2019, 465, 919-928.	3.1	16
208	Detection of trace amounts of insoluble pharmaceuticals in water by extraction and SERS measurements in a microfluidic flow regime. <i>Analyst</i> , The, 2021, 146, 3686-3696.	1.7	16
209	Oxidation of polyethylene implanted with As ions to different extents. <i>European Polymer Journal</i> , 1993, 29, 1255-1258.	2.6	15
210	Iodine diffusion and trapping in polyethylene implanted with 150 keV F ⁺ and As ⁺ ions to different fluences. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996, 114, 81-87.	0.6	15
211	Electrical resistivity and thermoelectric power of carbon black loaded polyethylene modified by GeV ion irradiation. <i>Polymer Degradation and Stability</i> , 1997, 55, 115-121.	2.7	15
212	Surface characterization of polymer foils. <i>E-Polymers</i> , 2012, 12, .	1.3	15
213	Structural, electrical and optical studies of gold nanostructures formed by Ar plasma-assisted sputtering. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012, 272, 193-197.	0.6	15
214	Adhesion and Growth of Vascular Smooth Muscle Cells on Nanostructured and Biofunctionalized Polyethylene. <i>Materials</i> , 2013, 6, 1632-1655.	1.3	15
215	Surface changes of biopolymers PHB and PLLA induced by Ar ⁺ plasma treatment and wet etching. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 332, 63-67.	0.6	15
216	Cells adhesion and growth on gold nanoparticle grafted glass. <i>Applied Surface Science</i> , 2014, 307, 217-223.	3.1	15

#	ARTICLE	IF	CITATIONS
217	Silver nanostructures: From individual dots to coupled strips for the tailoring of SERS excitation wavelength from near-UV to near-IR. <i>Electronic Materials Letters</i> , 2015, 11, 288-294.	1.0	15
218	Properties of polyamide nanofibers treated by UV-A radiation. <i>Materials Letters</i> , 2018, 214, 264-267.	1.3	15
219	Deposition of thin metal layers on chitosan films. <i>Materials Technology</i> , 2018, 33, 845-853.	1.5	15
220	Structure and properties of polymers modified by ion implantation. <i>European Polymer Journal</i> , 1994, 30, 1411-1415.	2.6	14
221	Effect of electrical field on dipoles in polymer composites. <i>Journal of Applied Polymer Science</i> , 2004, 91, 40-45.	1.3	14
222	Refractive index of polymethylmethacrylate oriented by fluid temperature under electrical field. <i>Journal of Materials Science: Materials in Electronics</i> , 2008, 19, 1064-1068.	1.1	14
223	Carbon coatings on polymers and their biocompatibility. <i>Applied Surface Science</i> , 2013, 275, 43-48.	3.1	14
224	Optical response of anisotropic silver nanostructures on polarized light. <i>Materials Letters</i> , 2014, 137, 72-74.	1.3	14
225	Functionalized polyethylene naphthalate for cytocompatibility improvement. <i>Reactive and Functional Polymers</i> , 2016, 100, 44-52.	2.0	14
226	Wrinkle pattern on PLLA induced by stress of polymer-metal bilayer. <i>Surface and Coatings Technology</i> , 2017, 311, 344-350.	2.2	14
227	Functional and Switchable Amphiphilic PMMA Surface Prepared by 3D Selective Modification. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701182.	1.9	14
228	Comparison of organic thermistors based on PEDOT:PSS and PEDOT:tos thin films under various thermal and humidity conditions. <i>Sensors and Actuators B: Chemical</i> , 2018, 275, 359-366.	4.0	14
229	A new way to prepare gold nanoparticles by sputtering "Sterilization, stability and other properties. <i>Materials Science and Engineering C</i> , 2020, 115, 111087.	3.8	14
230	Nitrogen implantation into polyimide. <i>European Polymer Journal</i> , 1995, 31, 189-191.	2.6	13
231	Low pressure annealing of gold nanostructures. <i>Vacuum</i> , 2013, 98, 100-105.	1.6	13
232	Wettability and Other Surface Properties of Modified Polymers. , 0, , .		13
233	Tuning Surface Chemistry of Polyetheretherketone by Gold Coating and Plasma Treatment. <i>Nanoscale Research Letters</i> , 2017, 12, 424.	3.1	13
234	Influence of temperature on silver nanoparticle size prepared by sputtering into PVP-glycerol system. <i>Materials Letters</i> , 2017, 186, 341-344.	1.3	13

#	ARTICLE	IF	CITATIONS
235	Preparation and characterization of silver nanoparticles in methyl cellulose matrix and their antibacterial activity. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 06GG09.	0.8	13
236	Longtime stability of silver-based SERS substrate in the environment and (bio)environment with variable temperature and humidity. <i>Sensors and Actuators A: Physical</i> , 2019, 285, 566-572.	2.0	13
237	Antimicrobial and photophysical properties of chemically grafted ultra-high-molecular-weight polyethylene. <i>Materials Science and Engineering C</i> , 2019, 96, 479-486.	3.8	13
238	Refractometric study of systems water-poly(ethylene glycol) for preparation and characterization of Au nanoparticles dispersion. <i>Arabian Journal of Chemistry</i> , 2019, 12, 5019-5027.	2.3	13
239	Honeycomb-patterned poly(L-lactic) acid on plasma-activated FEP as cell culture scaffold. <i>Polymer Degradation and Stability</i> , 2020, 181, 109370.	2.7	13
240	Influence of Drying Method and Argon Plasma Modification of Bacterial Nanocellulose on Keratinocyte Adhesion and Growth. <i>Nanomaterials</i> , 2021, 11, 1916.	1.9	13
241	Antibacterial Properties of a Honeycomb-like Pattern with Cellulose Acetate and Silver Nanoparticles. <i>Materials</i> , 2021, 14, 4051.	1.3	13
242	Switchable PNIPAm/PPyNT Hydrogel for Smart Supercapacitors: External Control of Capacitance for Pulsed Energy Generation or Prolongation of Discharge Time. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48030-48039.	4.0	13
243	SERS and advanced chemometrics " Utilization of Siamese neural network for picomolar identification of beta-lactam antibiotics resistance gene fragment. <i>Analytica Chimica Acta</i> , 2022, 1192, 339373.	2.6	13
244	RBS study of oxidation processes in polypropylene and polyethylene implanted with fluorine ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993, 80-81, 1059-1062.	0.6	12
245	Anomalous diffusion of Pb atoms into polyethylene implanted with F+ and As+ ions to different doses. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1994, 93, 282-287.	0.6	12
246	Doping of ion implanted polyethylene with metallocarborane. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995, 105, 241-244.	0.6	12
247	Diffusion of iodine into polyethylene implanted with 150 keV As+ ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995, 95, 192-196.	0.6	12
248	Electrical Conductivity of Ion Implanted Polyimide. <i>Journal of the Electrochemical Society</i> , 1995, 142, 590-593.	1.3	12
249	Ion beam ablation of polytetrafluoroethylene. <i>Journal of Applied Polymer Science</i> , 1998, 69, 1257-1261.	1.3	12
250	Plasma-Modified and Polyethylene Glycol-Grafted Polymers for Potential Tissue Engineering Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 6665-6671.	0.9	12
251	Annealing of PEEK, PET and PI implanted with Co ions at high fluencies. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 307, 598-602.	0.6	12
252	Annealing of silver nanolayers sputtered on polytetrafluoroethylene. <i>Surface and Interface Analysis</i> , 2013, 45, 1063-1066.	0.8	12

#	ARTICLE	IF	CITATIONS
253	Nanowires and nanodots prepared with polarized KrF laser on polyethersulphone. Materials Letters, 2015, 144, 15-18.	1.3	12
254	Green Synthesized Noble Metals for Biological Applications. Materials Today: Proceedings, 2016, 3, 608-616.	0.9	12
255	Cytocompatibility of polyethylene grafted with triethylenetetramine functionalized carbon nanoparticles. Applied Surface Science, 2017, 422, 809-816.	3.1	12
256	Reversible switching of PEDOT:PSS conductivity in the dielectricâ€“conductive range through the redistribution of light-governing polymers. RSC Advances, 2018, 8, 11198-11206.	1.7	12
257	Testing the applicability of LDPE/HNT composites for cable core insulation. Polymer Testing, 2019, 78, 105993.	2.3	12
258	Rapid SERS-based recognition of cell secretome on the folic acid-functionalized gold gratings. Analytical and Bioanalytical Chemistry, 2019, 411, 3309-3319.	1.9	12
259	Heat-treated carbon coatings on poly (l-lactide) foils for tissue engineering. Materials Science and Engineering C, 2019, 100, 117-128.	3.8	12
260	Versatile and Scalable Icephobization of Airspace Composite by Surface Morphology and Chemistry Tuning. ACS Applied Polymer Materials, 2020, 2, 977-986.	2.0	12
261	Effects of Bacterial Nanocellulose Loaded with Curcumin and Its Degradation Products on Human Dermal Fibroblasts. Materials, 2020, 13, 4759.	1.3	12
262	Establishing plasmon contribution to chemical reactions: alkoxyamines as a thermal probe. Chemical Science, 2021, 12, 4154-4161.	3.7	12
263	Effect of stabilizers in the thermal treatment of PVCâ€”XI.. European Polymer Journal, 1982, 18, 211-217.	2.6	11
264	Photodegradation of PVC stabilized with cadmium stearate- II. European Polymer Journal, 1985, 21, 1035-1038.	2.6	11
265	Polyimide degradation induced by irradiation with N+ ions. Journal of Materials Research, 1997, 12, 1661-1665.	1.2	11
266	On anomalous concentration depth profiles of atoms implanted into polymers. Nuclear Instruments & Methods in Physics Research B, 1998, 136-138, 568-573.	0.6	11
267	Refractive index of doped polymers modified by electrical field. Materials Letters, 2005, 59, 280-282.	1.3	11
268	Enhancement of Polymer Cytocompatibility by Nanostructuring of Polymer Surface. Journal of Nanomaterials, 2012, 2012, 1-17.	1.5	11
269	Silver nano-structures prepared by oriented evaporation on laser-patterned poly(methyl Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 1	1.7	11
270	Characterization of surface chemical modified carbon nano-particles. Materials Letters, 2013, 102-103, 83-86.	1.3	11

#	ARTICLE	IF	CITATIONS
271	Cytocompatibility of polyhydroxybutyrate modified by plasma discharge. <i>Polymer Engineering and Science</i> , 2014, 54, 1231-1238.	1.5	11
272	Characterization of PEEK, PET and PI implanted with Mn ions and sub-sequently annealed. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 325, 89-96.	0.6	11
273	Characterisation of PEEK, PET and PI implanted with 80keV Fe+ ions to high fluencies. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 331, 176-181.	0.6	11
274	High power plasma as an efficient tool for polymethylpentene cytocompatibility enhancement. <i>RSC Advances</i> , 2016, 6, 76000-76010.	1.7	11
275	Hydrophilic/hydrophobic surface modification impact on colloid lithography: Schottky-like defects, dislocation, and ideal distribution. <i>Applied Surface Science</i> , 2018, 433, 443-448.	3.1	11
276	Plasma induced cytocompatibility of stabilized poly-L-lactic acid doped with graphene nanoplatelets. <i>Reactive and Functional Polymers</i> , 2018, 131, 266-275.	2.0	11
277	Beyond common analytical limits of radicals detection using the functional SERS substrates. <i>Sensors and Actuators B: Chemical</i> , 2019, 300, 127015.	4.0	11
278	Honeycomb-like pattern formation on perfluoroethylenepropylene enhanced by plasma treatment. <i>Plasma Processes and Polymers</i> , 2019, 16, 1900063.	1.6	11
279	Multiresponsive Wettability Switching on Polymer Surface: Effect of Surface Chemistry and/or Morphology Tuning. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801937.	1.9	11
280	Nanostructuring of honeycomb-like polystyrene with excimer laser. <i>Progress in Organic Coatings</i> , 2020, 145, 105670.	1.9	11
281	Photodegradation of PVC stabilized by Ba, Ca, Cd and Zn stearates. <i>European Polymer Journal</i> , 1985, 21, 151-154.	2.6	10
282	Ion implantation enhanced adhesion of polypropylene. <i>Materials Letters</i> , 1992, 12, 434-436.	1.3	10
283	Modifications of Polypropylene Induced by the Implantation of Iodine Ions. <i>Japanese Journal of Applied Physics</i> , 1993, 32, 1810-1813.	0.8	10
284	Structural, chemical and biological properties of carbon layers sputtered on polyethyleneterephthalate. <i>Journal of Materials Science: Materials in Medicine</i> , 2006, 17, 229-234.	1.7	10
285	Dielectric properties of doped polystyrene and polymethylmethacrylate. <i>Journal of Materials Science: Materials in Electronics</i> , 2006, 17, 871-875.	1.1	10
286	Thermal stability of refractive index of polymethylmethacrylate layers prepared under electrical field. <i>Journal of Materials Science: Materials in Electronics</i> , 2007, 18, 457-461.	1.1	10
287	Electrokinetic Potential and Other Surface Properties of Polymer Foils and Their Modifications. , 0, , .		10
288	Grafting of gold nanoparticles on polyethyleneterephthalate using dithiol interlayer. <i>Materials Chemistry and Physics</i> , 2014, 145, 484-490.	2.0	10

#	ARTICLE	IF	CITATIONS
289	Laser-induced nanostructures on a polymer irradiated through a contact mask. Applied Surface Science, 2014, 321, 173-178.	3.1	10
290	Study of binary system glycerine-water and its colloidal samples of silver nanoparticles. Journal of Molecular Liquids, 2016, 218, 363-372.	2.3	10
291	Change of surface properties of gold nano-layers deposited on polyethersulfone film due to annealing. Materials Letters, 2016, 165, 33-36.	1.3	10
292	Tuning the plasmonic behavior of metallic nanowires. Materials Letters, 2016, 165, 181-184.	1.3	10
293	Surface analysis of ripple pattern on PS and PEN induced with ring-shaped mask due to KrF laser treatment. Surface and Interface Analysis, 2017, 49, 25-33.	0.8	10
294	Chemical modification of gold surface via UV-generated aryl radicals derived	1.9	10
295	Silver nanoparticles grafted onto PET: Effect of preparation method on antibacterial activity. Reactive and Functional Polymers, 2019, 145, 104376.	2.0	10
296	Antibacterial properties of angle-dependent nanopatterns on polystyrene. Reactive and Functional Polymers, 2019, 136, 173-180.	2.0	10
297	The influence of surface treatment and activation of thin film composite membranes with plasma discharge and determination of their physicochemical properties. Separation and Purification Technology, 2019, 220, 52-60.	3.9	10
298	Single Plasmon-Active Optical Fiber Probe for Instantaneous Chiral Detection. ACS Sensors, 2020, 5, 50-56.	4.0	10
299	Taking the power of plasmon-assisted chemistry on copper NPs: Preparation and application of COFs nanostructures for CO ₂ sensing in water. Microporous and Mesoporous Materials, 2020, 309, 110577.	2.2	10
300	Antibacterial Properties of Plasma-Activated Perfluorinated Substrates with Silver Nanoclusters Deposition. Nanomaterials, 2021, 11, 182.	1.9	10
301	Ciprofloxacin-Loaded Poly(<i>N</i> -isopropylacrylamide-co- <i>N</i> -acrylamide)/Polycaprolactone Nanofibers as Dual Thermo- and pH-Responsive Antibacterial Materials. ACS Applied Bio Materials, 2022, , ,	2.3	10
302	Laser-stimulated etching of n-type semiconductors. Chemical Physics Letters, 1988, 144, 548-551.	1.2	9
303	Time dependence of the number of unpaired electrons and the sheet resistance in ion irradiated polymers. Materials Letters, 1996, 28, 441-444.	1.3	9
304	Degradation of polyimide by implantation with Ar ⁺ ions. Journal of Applied Polymer Science, 1997, 64, 723-728.	1.3	9
305	Muscle cell adhesion on polytetrafluorethylene modified by UV irradiation. Journal of Materials Science Letters, 2001, 20, 1941-1942.	0.5	9
306	Gold nanoparticles grafting on glass surface. Applied Surface Science, 2012, 258, 8991-8995.	3.1	9

#	ARTICLE	IF	CITATIONS
307	The Properties and Application of Carbon Nanostructures. , 0, , .		9
308	Porphyrin migration and aggregation in a poly(methylmethacrylate) matrix. Polymer Composites, 2014, 35, 665-670.	2.3	9
309	Plasma and laser treatment of PMP for biocompatibility improvement. Vacuum, 2014, 107, 184-190.	1.6	9
310	Metal nanoparticles designed PET: Preparation, characterization and biological response. Reactive and Functional Polymers, 2016, 105, 1-8.	2.0	9
311	Compositional, structural, and optical changes of polyimide implanted by 1.0 MeV Ni + ions. Nuclear Instruments & Methods in Physics Research B, 2017, 406, 199-204.	0.6	9
312	The interplay of plasma treatment and gold coating and ultra-high molecular weight polyethylene: On the cytocompatibility. Materials Science and Engineering C, 2017, 71, 125-131.	3.8	9
313	Pd nanowire coatings of laser-treated polyethylene naphthalate: Preparation, characterization and biological response. EXPRESS Polymer Letters, 2018, 12, 1039-1046.	1.1	9
314	Biocompatibility of Ar plasma-treated fluorinated ethylene propylene: Adhesion and viability of human keratinocytes. Materials Science and Engineering C, 2019, 100, 269-275.	3.8	9
315	Nanostructured Polystyrene Doped with Acetylsalicylic Acid and Its Antibacterial Properties. Materials, 2020, 13, 3609.	1.3	9
316	Antimicrobial effect of polymers grafted with cinnamaldehyde. Materials Letters, 2020, 277, 128274.	1.3	9
317	Microcapacitors on graphene oxide and synthetic polymers prepared by microbeam lithography. Applied Surface Science, 2020, 528, 146802.	3.1	9
318	Optomechanical Processing of Silver Colloids: New Generation of Nanoparticle-Polymer Composites with Bactericidal Effect. International Journal of Molecular Sciences, 2021, 22, 312.	1.8	9
319	Quantitative detection of Î±1-acid glycoprotein (AGP) level in blood plasma using SERS and CNN transfer learning approach. Sensors and Actuators B: Chemical, 2022, 367, 132057.	4.0	9
320	Photoetching of n-GaAs in Na+ and K+ salts. Chemical Physics Letters, 1989, 157, 390-392.	1.2	8
321	Photochemical Etching of n-GaAs in Hydroxides. Journal of the Electrochemical Society, 1989, 136, 1241-1242.	1.3	8
322	Electrical resistivity of carbon black loaded polyethylene modified by ion implantation. Journal of Materials Research, 1994, 9, 643-647.	1.2	8
323	Electrical properties of Au-polystyrene-Au submicron structures. Applied Physics A: Materials Science and Processing, 1998, 67, 503-505.	1.1	8
324	RBS, ERDA and XPS study of Ag and Cu diffusion in PET and PI polymer foils. Nuclear Instruments & Methods in Physics Research B, 2005, 240, 303-307.	0.6	8

#	ARTICLE	IF	CITATIONS
325	Characterization of polystyrene and doped polymethylmethacrylate thin layers. <i>Journal of Materials Science: Materials in Electronics</i> , 2005, 16, 761-765.	1.1	8
326	RBS and AFM study of Ag and Au diffusion into PET foils influenced by plasma treatment. <i>Surface and Interface Analysis</i> , 2006, 38, 335-338.	0.8	8
327	Cytocompatibility of surface ground PE doped with calcium salt of 6-carboxycellulose. <i>Cellulose</i> , 2008, 15, 473-479.	2.4	8
328	Study of Ag and PE interface after plasma treatment. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2008, 5, 964-967.	0.8	8
329	Influence of substrate on properties of gold nanolayers. <i>Materials Letters</i> , 2010, 64, 1316-1318.	1.3	8
330	Laser-induced periodic surface structures (LIPSS) on polymer surfaces. , 2012, , .		8
331	Nano-structuring of sputtered gold layers on glass by annealing. <i>Vacuum</i> , 2012, 86, 729-732.	1.6	8
332	Grafting of plasma activated polyethyleneterephthalate with gold nanorods. <i>Materials Letters</i> , 2013, 91, 341-344.	1.3	8
333	Reversible patterning of poly(methylmethacrylate) doped with disperse Red 1 by laser scanning. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	8
334	Thickness and substrate dependences of phase transition, drug release and antibacterial properties of PNIPAm-co-AAc films. <i>RSC Advances</i> , 2015, 5, 86825-86831.	1.7	8
335	Copperâ€“gold sandwich structures on PE and PET and their SERS enhancement effect. <i>RSC Advances</i> , 2017, 7, 23055-23064.	1.7	8
336	Surface instability on polyethersulfone induced by dual laser treatment for husk nanostructure construction. <i>Reactive and Functional Polymers</i> , 2018, 125, 20-28.	2.0	8
337	Laser modification of graphene oxide layers. <i>EPJ Web of Conferences</i> , 2018, 167, 04010.	0.1	8
338	Plasmon-assisted self-cleaning sensor for the detection of organosulfur compounds in fuels. <i>Journal of Materials Chemistry C</i> , 2019, 7, 14181-14187.	2.7	8
339	Cellulose acetate honeycomb-like pattern created by improved phase separation. <i>EXPRESS Polymer Letters</i> , 2020, 14, 1078-1088.	1.1	8
340	Homochiral metal-organic frameworks functionalized SERS substrate for atto-molar enantio-selective detection. <i>Applied Materials Today</i> , 2020, 20, 100666.	2.3	8
341	Plasmon-assisted click chemistry at low temperature: an inverse temperature effect on the reaction rate. <i>Chemical Science</i> , 2021, 12, 5591-5598.	3.7	8
342	Differentiation of adipose tissue-derived stem cells towards vascular smooth muscle cells on modified poly(L-lactide) foils. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 025016.	1.7	8

#	ARTICLE	IF	CITATIONS
343	Permeability enhancement of chemically modified and grafted polyamide layer of thin-film composite membranes for biogas upgrading. <i>Journal of Membrane Science</i> , 2022, 641, 119890.	4.1	8
344	Oxygen incorporation in polyethylene implanted with 150 keV Sb ⁺ ions. <i>European Physical Journal D</i> , 1994, 44, 621-627.	0.4	7
345	Ga penetration into polymers. <i>Applied Physics A: Materials Science and Processing</i> , 1999, 68, 357-358.	1.1	7
346	Microscopic study of ultra-thin gold layers on polyethyleneterephthalate. <i>European Polymer Journal</i> , 2004, 40, 211-217.	2.6	7
347	Dielectric properties of doped polymethylmethacrylate. <i>Materials Letters</i> , 2005, 59, 341-344.	1.3	7
348	Short-Dithiol and Au Nanoparticles Grafting on Plasma Treated Polyethyleneterephthalate. <i>Journal of Nano Research</i> , 2013, 25, 40-48.	0.8	7
349	Biopolymer nanostructures induced by plasma irradiation and metal sputtering. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2014, 332, 7-10.	0.6	7
350	Annealing of gold nanolayers sputtered on polyimide and polyetheretherketone. <i>Thin Solid Films</i> , 2016, 616, 188-196.	0.8	7
351	Underwater Laser Treatment of PET: Effect of Processing Parameters on Surface Morphology and Chemistry. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2389.	1.3	7
352	Argon plasma-treated fluorinated ethylene propylene: Growth of primary dermal fibroblasts and mesenchymal stem cells. <i>Tissue and Cell</i> , 2019, 58, 121-129.	1.0	7
353	Flexible Conductive Polymer Film Grafted with Azo-Moieties and Patterned by Light Illumination with Anisotropic Conductivity. <i>Polymers</i> , 2019, 11, 1856.	2.0	7
354	Cell Behavior of Primary Fibroblasts and Osteoblasts on Plasma-Treated Fluorinated Polymer Coated with Honeycomb Polystyrene. <i>Materials</i> , 2021, 14, 889.	1.3	7
355	Chiroplasmon-active optical fiber probe for environment chirality estimation. <i>Sensors and Actuators B: Chemical</i> , 2021, 343, 130122.	4.0	7
356	A surface plasmon polariton-triggered Z-scheme for overall water splitting and solely light-induced hydrogen generation. <i>Journal of Materials Chemistry A</i> , 2022, 10, 13829-13838.	5.2	7
357	Laser-induced surface modifications, structure formation, and ablation of organic polymers. , 1995, , .		6
358	Thin surface layer of plasma treated polyethylene. <i>Strength of Materials</i> , 2008, 40, 86-89.	0.2	6
359	Cytocompatibility of Plasma and Thermally Treated Biopolymers. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-10.	1.5	6
360	Ag-PMMA structures for application in infra-red optical range. <i>Materials Chemistry and Physics</i> , 2014, 148, 343-348.	2.0	6

#	ARTICLE	IF	CITATIONS
361	Plasmooptoelectronic tuning of optical properties and SERS response of ordered silver grating by free carrier generation. <i>RSC Advances</i> , 2015, 5, 92869-92877.	1.7	6
362	Effect of VUV-excimer lamp treatment on cellulose fiber. <i>International Journal of Polymer Analysis and Characterization</i> , 2016, 21, 337-347.	0.9	6
363	Effect of irradiation conditions by swift heavy ions on the microstructure and composition of PMMA. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019, 461, 175-180.	0.6	6
364	Effect of sterilization methods on electrospun cellulose acetate butyrate nanofibers for SH-SY5Y cultivation. <i>Reactive and Functional Polymers</i> , 2019, 143, 104339.	2.0	6
365	Reaction parameters of in situ silver chloride precipitation on cellulose fibres. <i>Materials Science and Engineering C</i> , 2019, 95, 134-142.	3.8	6
366	Enhancement of Surface Plasmon Fiber Sensor Sensitivity Through the Grafting of Gold Nanoparticles. <i>Photonic Sensors</i> , 2020, 10, 105-112.	2.5	6
367	PLLA Honeycomb-Like Pattern on Fluorinated Ethylene Propylene as a Substrate for Fibroblast Growth. <i>Polymers</i> , 2020, 12, 2436.	2.0	6
368	The influence of Au nanoparticles presence in PDMS on microstructures creation by ion beam lithography. <i>Surface and Interface Analysis</i> , 2020, 52, 1040-1044.	0.8	6
369	Bimetallic Nanowires on Laser-Patterned PEN as Promising Biomaterials. <i>Nanomaterials</i> , 2021, 11, 2285.	1.9	6
370	Photodegradation of PVC stabilized with cadmium stearate. <i>European Polymer Journal</i> , 1985, 21, 899-902.	2.6	5
371	Laser Etching of Si. <i>Journal of the Electrochemical Society</i> , 1991, 138, 1947-1948.	1.3	5
372	Characterization of thin SiO ₂ surface layers on Si by proton and alpha particle backscattering. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1992, 68, 223-226.	0.6	5
373	Study of polycarbonate degradation induced by irradiation with He ⁺ ions. <i>Journal of Materials Research</i> , 1995, 10, 468-472.	1.2	5
374	Doping of Ion Irradiated Polyethylenterephthalate from Water Solution of LiCl. <i>Physica Status Solidi A</i> , 1997, 159, 327-333.	1.7	5
375	Water diffusion in polyethylene modified by ion irradiation. <i>Polymer Degradation and Stability</i> , 1998, 60, 431-435.	2.7	5
376	Variable surface properties of PTFE foils. <i>E-Polymers</i> , 2010, 10, .	1.3	5
377	Gold Nanostructures Prepared on Solid Surface. , 0, , .		5
378	Surface properties of poly(ethylene terephthalate) foils of different thicknesses. <i>Journal of Materials Science</i> , 2012, 47, 6429-6435.	1.7	5

#	ARTICLE	IF	CITATIONS
379	Grafting of Gold Nanoparticles on Glass Using Sputtered Gold Interlayers. Journal of Chemistry, 2014, 2014, 1-6.	0.9	5
380	Combination of temperature and saturated vapor annealing for phase separation of block copolymer. Journal of Applied Polymer Science, 2015, 132, .	1.3	5
381	Cytotoxicity of Pd nanostructures supported on PEN: Influence of sterilization on Pd/PEN interface. Materials Science and Engineering C, 2017, 70, 479-486.	3.8	5
382	Vapor Annealing and Colloid Lithography: An Effective Tool To Control Spatial Resolution of Surface Modification. Langmuir, 2018, 34, 12861-12869.	1.6	5
383	Structural study and ion-beam channelling in SiO ₂ modified by Kr ⁺ , Ag ⁺ , 2+ and Au ⁺ , 2+ ions. Applied Surface Science, 2018, 458, 722-733.	3.1	5
384	Immobilization of Fe@Au superparamagnetic nanoparticles on polyethylene. European Polymer Journal, 2019, 110, 56-62.	2.6	5
385	Reversible wettability switching of piezo-responsive nanostructured polymer fibers by electric field. Chemical Papers, 2021, 75, 191-196.	1.0	5
386	PEGylated Gold Nanoparticles Grafted with N-Acetyl-L-Cysteine for Polymer Modification. Nanomaterials, 2021, 11, 1434.	1.9	5
387	Surface Treatment of Materials for Variable Applications and Surface Properties and Characterization. Manufacturing Technology, 2016, 16, 949-955.	0.2	5
388	Influence of UV irradiation and subsequent chemical grafting on the surface properties of cellulose. Cellulose, 2022, 29, 1405-1418.	2.4	5
389	Diffusion into polypropylene of chlorides of alkali metals. European Polymer Journal, 1993, 29, 923-926.	2.6	4
390	Diffusion of FeCl ₃ into ion-implanted polyethylene. Materials Letters, 1995, 23, 321-324.	1.3	4
391	Deposition of polystyrene films by vacuum evaporation. Journal of Materials Science Letters, 1997, 16, 1564-1566.	0.5	4
392	Comparative investigation of effects induced in PE by implantation with C ⁺ and O ⁺ ions. Journal of Materials Science Letters, 1999, 18, 1273-1275.	0.5	4
393	Biocompatibility of Carbon Layer on Polymer. Materials Science Forum, 2005, 482, 247-250.	0.3	4
394	Cell Adhesion and Proliferation on Modified Polyethylene. Materials Science Forum, 2008, 567-568, 269-272.	0.3	4
395	Polymethylmethacrylate optical waveguides prepared in electrical field. Materials Letters, 2007, 61, 953-955.	1.3	4
396	Electrical properties of flash-evaporated carbon nanolayers on PTFE. Journal of Materials Science, 2010, 45, 279-281.	1.7	4

#	ARTICLE	IF	CITATIONS
397	Size-dependent density of gold nano-clusters and nano-layers deposited on solid surface. Collection of Czechoslovak Chemical Communications, 2010, 75, 517-525.	1.0	4
398	Annealing of laser patterned PMMA coated with gold and gallium. Journal of Materials Science: Materials in Electronics, 2013, 24, 3541-3545.	1.1	4
399	Electronic behavior of micro-structured polymer foils immersed in electrolyte. Nuclear Instruments & Methods in Physics Research B, 2013, 306, 222-226.	0.6	4
400	Physicochemical Properties of Gold Nanostructures Deposited on Glass. Journal of Nanomaterials, 2014, 2014, 1-8.	1.5	4
401	Time dependence and mechanism of Au nanostructure transformation during annealing. Functional Materials Letters, 2014, 07, 1450022.	0.7	4
402	Growth of muscle cells on plasma-treated and gold nanoparticles-grafted polytetrafluoroethylene. Iranian Polymer Journal (English Edition), 2014, 23, 227-236.	1.3	4
403	Well-ordered "teeth-shaped" silver-microstructures on poly(methyl methacrylate) patterned by laser writing. Materials Letters, 2015, 158, 388-391.	1.3	4
404	Periodic nanostructure induced on PEN surface by KrF laser irradiation. International Journal of Nanotechnology, 2017, 14, 399.	0.1	4
405	Magnetic and Surface Properties of Metallophthalocyanines (M = Cu, Fe) Grafted Polyethylene. Journal of Physical Chemistry C, 2018, 122, 1396-1403.	1.5	4
406	Laser patterning of transparent polymers assisted by plasmon excitation. Soft Matter, 2018, 14, 4860-4865.	1.2	4
407	Carbon nanostructures grafted biopolymers for medical applications. Materials Technology, 2019, 34, 376-385.	1.5	4
408	Photochemical Preparation of Silver Colloids in Hydroxypropyl Methylcellulose for Antibacterial Materials with Controlled Release of Silver. Coatings, 2020, 10, 1046.	1.2	4
409	Copper layers sputtered on PTFE: Effect of annealing on antibacterial performance. Materials Today Communications, 2020, 24, 101207.	0.9	4
410	Proton exchange membrane with plasmon-active surface for enhancement of fuel cell effectivity. Nanoscale, 2020, 12, 12068-12075.	2.8	4
411	Plasmon-Assisted Transfer Hydrogenation: Kinetic Control of Reaction Chemoselectivity through a Light Illumination Mode. Journal of Physical Chemistry C, 2021, 125, 10318-10325.	1.5	4
412	Biopolymer Composites with Ti/Au Nanostructures and Their Antibacterial Properties. Pharmaceutics, 2021, 13, 826.	2.0	4
413	Surface Texturing of Polyethylene Terephthalate Induced by Excimer Laser in Silver Nanoparticle Colloids. Materials, 2021, 14, 3263.	1.3	4
414	Polymer icephobic surface by graphite coating and chemical grafting with diazonium salts. Surfaces and Interfaces, 2021, 25, 101226.	1.5	4

#	ARTICLE	IF	CITATIONS
415	Cytocompatibility of Polymethyl Methacrylate Honeycomb-like Pattern on Perfluorinated Polymer. <i>Polymers</i> , 2021, 13, 3663.	2.0	4
416	KrF Laser and Plasma Exposure of PDMSâ€“Carbon Composite and Its Antibacterial Properties. <i>Materials</i> , 2022, 15, 839.	1.3	4
417	Laser-Promoted Immobilization of Ag Nanoparticles: Effect of Surface Morphology of Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overl 1.9	1.9	4
418	Laser-induced etching of GaAs in oxidizing and reducing media. <i>Chemical Physics Letters</i> , 1989, 164, 549-551.	1.2	3
419	Doping of latent tracks in polyethylene by iodine diffusion. <i>Radiation Measurements</i> , 1995, 25, 71-72.	0.7	3
420	Doping of polyethyleneterephthalate modified by 150 keV Ar+ion bombardement with anorganic agents. <i>Radiation Measurements</i> , 1997, 28, 777-780.	0.7	3
421	Coloring of radiation damages in ion-implanted poly(aryl ether ether ketone): LiCl uptake and thermal desorption. <i>Journal of Applied Polymer Science</i> , 2002, 83, 2780-2784.	1.3	3
422	Material Analyses and Modification on the Tandetron Accelerator. <i>AIP Conference Proceedings</i> , 2007, , .	0.3	3
423	Gold Nanolayers on Plasma-Treated Polypropylene. <i>Journal of Adhesion Science and Technology</i> , 2010, 24, 731-742.	1.4	3
424	Surface Properties of Thin Gold Layers Sputtered on Polymers. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 6652-6657.	0.9	3
425	The manipulation of carbon nanotubes on a polymer surface using a laser beam. <i>Journal of Materials Science</i> , 2012, 47, 4585-4588.	1.7	3
426	Noble Metal Nanoparticles Prepared by Metal Sputtering into Glycerol and their Grafting to Polymer Surface. , 0, , .		3
427	Structural and magnetic characterization of copper sulfonated phthalocyanine grafted onto treated polyethylene. <i>Applied Surface Science</i> , 2016, 379, 259-263.	3.1	3
428	Simulation of RBS spectra with known 3D sample surface roughness. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017, 406, 99-103.	0.6	3
429	Cell adhesion and proliferation on poly(tetrafluoroethylene) with plasmaâ€“metal and plasmaâ€“metalâ€“carbon interfaces. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 06GG03.	0.8	3
430	Grafting of platinum nanostructures on biopolymer at elevated temperature. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 546, 316-325.	2.3	3
431	PVP-assisted thermal annealing of thin Au layer for creation of effective and reproducible SERS substrates. <i>Nano Structures Nano Objects</i> , 2019, 17, 77-83.	1.9	3
432	Plasma-Activated Polyvinyl Alcohol Foils for Cell Growth. <i>Coatings</i> , 2020, 10, 1083.	1.2	3

#	ARTICLE	IF	CITATIONS
433	Carbon-gold nanocomposite induced by unique high energy laser single-shot annealing. <i>Materials Letters</i> , 2021, 301, 130256.	1.3	3
434	PTFE Based Multilayer Micro-Coatings for Aluminum AlMg3 Forms Used in Tire Production. <i>Coatings</i> , 2021, 11, 119.	1.2	3
435	Printable Resin Modified by Grafted Silver Nanoparticles for Preparation of Antifouling Microstructures with Antibacterial Effect. <i>Polymers</i> , 2021, 13, 3838.	2.0	3
436	Plasma treatment of PTFE at elevated temperature: The effect of surface properties on its biological performance. <i>Materials Today Communications</i> , 2022, 31, 103254.	0.9	3
437	Effect of laser light on n-GaAs photoetching. <i>Applied Physics A: Solids and Surfaces</i> , 1990, 51, 61-63.	1.4	2
438	Laser etching of InP in aqueous solutions. <i>Semiconductor Science and Technology</i> , 1991, 6, 942-944.	1.0	2
439	Dual implantation of silicon with boron and argon ions. <i>Physica Status Solidi A</i> , 1994, 141, 93-98.	1.7	2
440	Surface modification of polymers by UV-irradiation: applications in micro- and biotechnology. , 2005, , .		2
441	Plasma modification of HEMA and EOEMA surface properties. <i>Radiation Effects and Defects in Solids</i> , 2006, 161, 15-19.	0.4	2
442	Surface Modification of Hydrogels and Cell Adhesion. <i>Materials Science Forum</i> , 2008, 567-568, 265-268.	0.3	2
443	Characterization and Cytocompatibility of Carbon Films. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 6724-6730.	0.9	2
444	Artificial chirality induced in doped polymer by irradiation with circularly polarized excimer laser light. <i>Optical Materials Express</i> , 2015, 5, 2761.	1.6	2
445	AFM study of excimer laser patterning of block-copolymer: Creation of ordered hierarchical, hybrid, or recessed structures. <i>Applied Surface Science</i> , 2016, 371, 203-212.	3.1	2
446	Engineering PEEK Bioactivity: Effect of Plasma and Gold Sputtered Interface. <i>Materials Today: Proceedings</i> , 2016, 3, 115-124.	0.9	2
447	Biocompatibility of modified ultra-high-molecular-weight polyethylene. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2
448	Transfer of metallic nanostructures from solid-state substrates. <i>RSC Advances</i> , 2016, 6, 42382-42386.	1.7	2
449	Adhesion of thin Au layers on glass treated with Ar plasma and biphenyl-4,4'-dithiol. <i>Surface and Coatings Technology</i> , 2017, 331, 35-39.	2.2	2
450	Surface changes of polymer modified by gold nanoparticles. <i>International Journal of Nanotechnology</i> , 2017, 14, 120.	0.1	2

#	ARTICLE	IF	CITATIONS
451	Lipophilic Gold Grating for SERS Detection of Biological Objects. Proceedings (mdpi), 2017, 1, .	0.2	2
452	Radicals mediated magnetism in Ar plasma treated high-density polyethylene. Journal of Magnetism and Magnetic Materials, 2018, 454, 185-189.	1.0	2
453	Structurally controlled cell growth on modified polymer surfaces. Vacuum, 2019, 169, 108956.	1.6	2
454	Antibacterial properties of silver coated regenerated cellulose. Micro and Nano Letters, 2020, 15, 159-162.	0.6	2
455	Nonlinear optical properties and markedly higher two photon absorption of ordered c-shaped plasmon-active metal nanostructures. Optical Materials, 2021, 112, 110695.	1.7	2
456	Surface properties of a laser-treated biopolymer. Materiali in Tehnologije, 2016, 50, 331-335.	0.3	2
457	Construction and Properties of Ripples on Polymers for Sensor Applications. Manufacturing Technology, 2018, 18, 851-855.	0.2	2
458	Immobilization of Gold Nanoparticles in Localized Surface Plasmon Polariton-Coupled Hot Spots via Photolytic Dimerization of Aromatic Amine Groups for SERS Detection in a Microfluidic Regime. ACS Applied Nano Materials, 2022, 5, 1836-1844.	2.4	2
459	Engineered Cu-PEN Composites at the Nanoscale: Preparation and Characterisation. Nanomaterials, 2022, 12, 1220.	1.9	2
460	Grafting of silver nanospheres and nanoplates onto plasma activated PET: Effect of nanoparticle shape on antibacterial activity. Vacuum, 2022, 203, 111268.	1.6	2
461	Carbon Transformation Induced by High Energy Excimer Treatment. Materials, 2022, 15, 4614.	1.3	2
462	Photoetching of GaAs IN Fe ³⁺ and Fe ²⁺ salts. Materials Letters, 1989, 8, 259-261.	1.3	1
463	Depth profiles of Sb atoms implanted into Ti. Radiation Effects and Defects in Solids, 1991, 118, 151-156.	0.4	1
464	Defects formation in the dual B ⁺ and N ⁺ ions implanted silicon. European Physical Journal D, 1994, 44, 949-956.	0.4	1
465	Redistribution of iodine in polyethylene modified by ion irradiation. European Physical Journal D, 1997, 47, 255-258.	0.4	1
466	Characterization of polymeric films by ellipsometry. Journal of Materials Science Letters, 2000, 19, 679-681.	0.5	1
467	Reflection from a Gold Sputtered Thin Layer. , 2006, , .		1
468	Photochemical surface modification of polymers for biomedical applications. , 2006, , .		1

#	ARTICLE	IF	CITATIONS
469	Ordered graphene strips onto polymer backing prepared by laser scanning. Applied Physics Letters, 2012, 101, 173102.	1.5	1
470	Interaction of polypropylene with sputtered and evaporated au nanolayers. Polymer Engineering and Science, 2013, 53, 2270-2275.	1.5	1
471	Preparation of ordered silver angular nanoparticles array in block copolymer film for surface-enhanced Raman spectroscopy. Journal of Nanoparticle Research, 2016, 18, 1.	0.8	1
472	Detection of organic vapors on sputtered and annealed thin Au films. Journal of Physics: Conference Series, 2018, 987, 012005.	0.3	1
473	Substrate Effects of Noble Metal Nanostructures Prepared by Sputtering. , 2018, , .		1
474	Application of Plasmon-Induced Lithography for Creation of a Residual-Free Pattern and Simple Surface Modifications. ACS Omega, 2019, 4, 5534-5539.	1.6	1
475	Cu phthalocyanine, Cu and Fe@Au nanoparticles grafted polyethylene: From structural to magnetic properties. Materials Chemistry and Physics, 2020, 239, 122104.	2.0	1
476	Comparison of GO and polymer microcapacitors prepared by ion beam writing. Surface and Interface Analysis, 2020, 52, 1171-1177.	0.8	1
477	In-situ generation of Au nanoparticles in poly(methyl methacrylate) films via MeV proton irradiation. Materials Chemistry and Physics, 2022, 275, 125205.	2.0	1
478	Non-Coherent Structure Formation on UV-Laser Irradiated Polymers. , 1994, , 237-243.		1
479	Microscopy of Material Surfaces for Tissue Engineering. Manufacturing Technology, 2016, 16, 1162-1168.	0.2	1
480	Antibacterial nanocomposite supporting cell growth and spheroid formation by chemical surface treatment of polymer foil. Surface and Interface Analysis, 0, , .	0.8	1
481	Mammalian Cell Interaction with Periodic Surface Nanostructures. International Journal of Molecular Sciences, 2022, 23, 4676.	1.8	1
482	Laser stimulated etching of n-GaAs. European Physical Journal D, 1989, 39, 1042-1047.	0.4	0
483	Laser-stimulated etching of n-GaAs in aqueous solutions. Materials Letters, 1989, 9, 14-16.	1.3	0
484	Laser-stimulated etching of n-Si in aqueous solutions. Materials Letters, 1990, 9, 204-206.	1.3	0
485	Modification of polyethyleneterephthalate surface by the implantation of Sb ⁺ ions. European Polymer Journal, 1996, 32, 747-750.	2.6	0
486	Gold Nanolayers Prepared on Poly(ethyleneterephthalate). Materials Science Forum, 2008, 567-568, 261-264.	0.3	0

#	ARTICLE	IF	CITATIONS
487	Surface Structure and Cells Adhesion on Doped Polyethylene. Materials Science Forum, 2008, 567-568, 253-256.	0.3	0
488	Surface properties of carbon structures evaporated on polytetrafluoroethylene. Journal of Materials Science, 2013, 48, 819-824.	1.7	0
489	Local Mechanical Properties of Au Thin Films on Polyethylene. Key Engineering Materials, 0, 586, 87-90.	0.4	0
490	Characterization of Surface Nanostructures on "Thin" Polyolephine Foils. Journal of Nano Research, 2014, 27, 31-39.	0.8	0
491	Laser-induced periodic structures on polymers for the formation of gold or silver nanowires showing pronounced plasmon resonances. , 2014, , .		0
492	Transfer of thin, patterned gold layers from poly(methyl methacrylate) stamp onto photoresist surface. Thin Solid Films, 2014, 550, 459-463.	0.8	0
493	Efficient nanostructure construction on polymer substrates by plasma treatment for tissue engineering. , 2016, , .		0
494	Simple methods for polymer nanostructuring by plasma modification, metal sputtering, and annealing. , 2016, , .		0
495	Angular resolved transmission spectra of corrugated metallic films and gratings: Localized and surface plasmons. Materials Letters, 2017, 203, 32-36.	1.3	0
496	Thermally induced wrinkling of poly-L-lactic acid with palladium nanolayers. , 2017, , .		0
497	Laser induced nanostructures created from Au layer on polyhydroxybutyrate. Journal of Physics: Conference Series, 2017, 917, 052009.	0.3	0
498	Surface changes of poly-L-lactic acid due to annealing. Journal of Physics: Conference Series, 2017, 917, 092007.	0.3	0
499	Repeated Temperature and Humidity Stability of SERS-active Periodical Silver Nanostructure. Proceedings (mdpi), 2017, 1, .	0.2	0
500	Structure-Dependent Biological Response of Noble Metals: From Nanoparticles, Through Nanowires to Nanolayers. , 0, , .		0
501	Preparation of Composite Periodic Metal-Polymer Nanostructures. , 2018, , .		0
502	Effect of Amines Addition on Properties and Stability of PEGylated Au Nanoparticles. Key Engineering Materials, 0, 793, 47-52.	0.4	0
503	MESOPOROUS SILICA THIN FILMS FOR BIOMOLECULES SERS DETECTION. , 2020, , .		0
504	ADVANCED COLLOID LITHOGRAPHY FOR SURFACE FUNCTIONALIZATION - EXPANDING THE CURRENT STATE OF THE ART. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
505	BLACK GOLD - LIKE SERS-ACTIVE METAL-ORGANIC FRAMEWORKS. , 2020, , .		0
506	SENSITIVE MICROMIXER FOR DETECTING LOW CONCENTRATIONS OF IBUPROFEN. , 2020, , .		0
507	SPATIALLY SELECTIVE MODIFICATION OF GOLD NANORODS. , 2020, , .		0
508	Plasmon-mediated electrocatalytic activity of TiB2 towards water splitting. , 2021, , .		0
509	COUPLED SEMICONDUCTORS AS photo- electrochemical catalyst for water splitting. , 2021, , .		0
510	Periodical amphiphilic surface with chemical patterning for micelles immobilization and analysis. Applied Surface Science, 2022, 586, 152833.	3.1	0