Vaclav Svorcik

List of Publications by Citations

483 papers	8,799 citations	44 h-index	67 g-index
518 ext. papers	10,098 ext. citations	4.3 avg, IF	6.36 L-index

#	Paper	IF	Citations
483	Modulation of cell adhesion, proliferation and differentiation on materials designed for body implants. *Biotechnology Advances*, **2011**, 29, 739-67	17.8	654
482	Stem cells: their source, potency and use in regenerative therapies with focus on adipose-derived stem cells - a review. *Biotechnology Advances*, **2018**, 36, 1111-1126	17.8	164
481	Versatile Application of Nanocellulose: From Industry to Skin Tissue Engineering and Wound Healing. *Nanomaterials*, **2019**, 9,	5.4	155
480	Modification of surface properties of high and low density polyethylene by Ar plasma discharge. *Polymer Degradation and Stability*, **2006**, 91, 1219-1225	4.7	148
479	Methods of Gold and Silver Nanoparticles Preparation. *Materials*, **2019**, 13,	3.5	106
478	Surface Modification of Polymer Substrates for Biomedical Applications. *Materials*, **2017**, 10,	3.5	103
477	Nano-structured and functionalized surfaces for cytocompatibility improvement and bactericidal action. *Biotechnology Advances*, **2015**, 33, 1120-9	17.8	102
476	Properties of gold nanostructures sputtered on glass. *Nanoscale Research Letters*, **2011**, 6, 96	5	100
475	Surface characterization of plasma treated polymers for applications as biocompatible carriers. *EXPRESS Polymer Letters*, **2013**, 7, 535-545	3.4	94
474	Effect of plasma treatment on cellulose fiber. *Cellulose*, **2013**, 20, 953-961	5.5	93
473	Gold Coating of Poly(ethylene terephthalate) Modified by Argon Plasma. *Plasma Processes and Polymers*, **2007**, 4, 69-76	3.4	83
472	Cellulose-based materials as scaffolds for tissue engineering. *Cellulose*, **2013**, 20, 2263-2278	5.5	82
471	Improved adhesion and growth of human osteoblast-like MG 63 cells on biomaterials modified with carbon nanoparticles. *Diamond and Related Materials*, **2007**, 16, 2133-2140	3.5	74
470	Progressive approach for metal nanoparticle synthesis. *Materials Letters*, **2012**, 89, 47-50	3.3	73
469	Surface Modification of Biopolymers by Argon Plasma and Thermal Treatment. *Plasma Processes and Polymers*, **2012**, 9, 197-206	3.4	70
468	Adhesion and proliferation of human endothelial cells on photochemically modified polytetrafluoroethylene. *Biomaterials*, **2003**, 24, 5139-44	15.6	68
467	Modification of surface properties of polyethylene by Ar plasma discharge. *Nuclear Instruments & Methods in Physics Research B*, **2006**, 244, 365-372	1.2	65

466	Argon plasma irradiation of polypropylene. *Nuclear Instruments & Methods in Physics Research B*, **2010**, 268, 2111-2114	1.2	62
465	Fluorine ion-implanted polystyrene improves growth and viability of vascular smooth muscle cells in culture. *Journal of Biomedical Materials Research Part B*, **2000**, 49, 369-79		61
464	Molecular mechanisms of improved adhesion and growth of an endothelial cell line cultured on polystyrene implanted with fluorine ions. *Biomaterials*, **2000**, 21, 1173-9	15.6	60
463	Noble Metal Nanostructures Influence of Structure and Environment on Their Optical Properties. *Journal of Nanomaterials*, **2013**, 2013, 1-15	3.2	59
462	Antimicrobial Treatment of Polymeric Medical Devices by Silver Nanomaterials and Related Technology. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	59
461	Cell microarrays on photochemically modified polytetrafluoroethylene. *Biomaterials*, **2005**, 26, 5572-80	15.6	58
460	Pretreatment-free selective and reproducible SERS-based detection of heavy metal ions on DTPA functionalized plasmonic platform. *Sensors and Actuators B: Chemical*, **2017**, 253, 830-838	8.5	57
459	The Effect of Silver Grating and Nanoparticles Grafting for LSP–SPP Coupling and SERS Response Intensification. *Journal of Physical Chemistry C*, **2016**, 120, 10569-10577	3.8	57
458	Comparison of glow argon plasma-induced surface changes of thermoplastic polymers. *Nuclear Instruments & Methods in Physics Research B*, **2011**, 269, 83-88	1.2	55
457	Surface Plasmon Polaritons on Silver Gratings for Optimal SERS Response. *Journal of Physical Chemistry C*, **2015**, 119, 9506-9512	3.8	53
456	Plasma activated polymers grafted with cysteamine improving surfaces cytocompatibility. *Polymer Degradation and Stability*, **2014**, 101, 1-9	4.7	53
455	Silver release and antimicrobial properties of PMMA films doped with silver ions, nano-particles and complexes. *Materials Science and Engineering C*, **2015**, 49, 534-540	8.3	52
454	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. *Biomaterials*, **1996**, 17, 1121-6	15.6	51
453	Annealing of sputtered gold nano-structures. *Applied Physics A: Materials Science and Processing*, **2011**, 102, 747-751	2.6	49
452	Cytocompatibility of Ar+ plasma treated and Au nanoparticle-grafted PE. *Nuclear Instruments & Methods in Physics Research B*, **2009**, 267, 1904-1910	1.2	49
451	Gold nano-wires and nano-layers at laser-induced nano-ripples on PET. *Applied Surface Science*, **2010**, 256, 2205-2209	6.7	49
450	Surface modification of Au and Ag plasmonic thin films via diazonium chemistry: Evaluation of structure and properties. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2017**, 516, 274-285	5.1	48
449	Metal-organic framework (MOF-5) coated SERS active gold gratings: A platform for the selective detection of organic contaminants in soil. *Analytica Chimica Acta*, **2019**, 1068, 70-79	6.6	48

448	Temperature-responsive PLLA/PNIPAM nanofibers for switchable release. *Materials Science and Engineering C*, **2017**, 72, 293-300	8.3	47
447	Cell adhesion on polytetrafluoroethylene modified by UV-irradiation in an ammonia atmosphere. *Journal of Biomedical Materials Research - Part A*, **2003**, 67, 130-7	5.4	47
446	Ablation and water etching of poly(ethylene) modified by argon plasma. *Polymer Degradation and Stability*, **2007**, 92, 1645-1649	4.7	46
445	Structure formation in UV-laser ablated poly-ethylene-terephthalate (PET). *Applied Physics A: Solids and Surfaces*, **1991**, 53, 330-331		46
444	Dual-Action Flexible Antimicrobial Material: Switchable Self-Cleaning, Antifouling, and Smart Drug Release. *Advanced Functional Materials*, **2019**, 29, 1901880	15.6	45
443	Polymer nanostructures for bioapplications induced by laser treatment. *Biotechnology Advances*, **2018**, 36, 839-855	17.8	45
442	Antibacterial wound dressing: plasma treatment effect on chitosan impregnation and in situ synthesis of silver chloride on cellulose surface. *RSC Advances*, **2015**, 5, 17690-17699	3.7	45
441	Antibacterial properties of modified biodegradable PHB non-woven fabric. *Materials Science and Engineering C*, **2016**, 65, 364-8	8.3	45
440	Characterization of evaporated and sputtered thin Au layers on poly(ethylene terephtalate). *Journal of Applied Polymer Science*, **2006**, 99, 1698-1704	2.9	44
439	Cell adhesion on artificial materials for tissue engineering. *Physiological Research*, **2004**, 53 Suppl 1, S35-45		44
438	AFM surface morphology investigation of ion beam modified polyimide. *Nuclear Instruments & Methods in Physics Research B*, **1997**, 122, 663-667	1.2	43
437	Polymethylmethacrylate doped with porphyrin and silver nanoparticles as light-activated antimicrobial material. *RSC Advances*, **2014**, 4, 50624-50630	3.7	42
436	Early stages of growth of gold layers sputter deposited on glass and silicon substrates. *Nanoscale Research Letters*, **2012**, 7, 241	5	42
435	Stabilization of sputtered gold and silver nanoparticles in PEG colloid solutions. *Journal of Nanoparticle Research*, **2015**, 17, 1	2.3	40
434	Nanostructuring of polymethylpentene by plasma and heat treatment for improved biocompatibility. *Polymer Degradation and Stability*, **2012**, 97, 1075-1082	4.7	40
433	Surface ablation of PLLA induced by KrF excimer laser. *Applied Surface Science*, **2013**, 283, 438-444	6.7	39
432	Annealing of gold nanostructures sputtered on glass substrate. *Applied Physics A: Materials Science and Processing*, **2011**, 102, 605-610	2.6	39
431	PTFE surface modification by Ar plasma and its characterization. *Vacuum*, **2012**, 86, 643-647	3.7	38

430	Antibacterial properties of green-synthesized noble metal nanoparticles. *Materials Letters*, **2013**, 113, 59-62	3.3	38
429	Deposition of gold nano-particles and nano-layers on polyethylene modified by plasma discharge and chemical treatment. *Nuclear Instruments & Methods in Physics Research B*, **2009**, 267, 2484-2488	1.2	38
428	Thickness dependence of refractive index and optical gap of PMMA layers prepared under electrical field. *Journal of Materials Science: Materials in Electronics*, **2008**, 19, 363-367	2.1	38
427	Angle dependent laser nanopatterning of poly(ethylene terephthalate) surfaces. *Applied Surface Science*, **2011**, 257, 6021-6025	6.7	36
426	Ablation and water etching of plasma-treated polymers. *Radiation Effects and Defects in Solids*, **2008**, 163, 779-788	0.9	36
425	Characterization of thin gold layers on polyethyleneterephthalate: transition from discontinuous to continuous, homogenous layer. *Applied Physics A: Materials Science and Processing*, **2002**, 75, 541-544	2.6	36
424	Ultrasensitive and reproducible SERS platform of coupled Ag grating with multibranched Au nanoparticles. *Physical Chemistry Chemical Physics*, **2017**, 19, 14761-14769	3.6	35
423	Cell Adhesion and Proliferation on Plasma-Treated and Poly(ethylene glycol)-Grafted Polyethylene. *Journal of Adhesion Science and Technology*, **2010**, 24, 743-754	2	35
422	Characterization of carbon nanolayers flash evaporated on PET and PTFE. *Carbon*, **2009**, 47, 1770-1778	10.4	35
421	Gold coatings on polyethyleneterephthalate nano-patterned by F2 laser irradiation. *Applied Surface Science*, **2008**, 254, 3585-3590	6.7	35
420	Helicene-SPP-Based Chiral Plasmonic Hybrid Structure: Toward Direct Enantiomers SERS Discrimination. *ACS Applied Materials & Interfaces*, **2019**, 11, 1555-1562	9.5	35
419	Tailoring of PEEK bioactivity for improved cell interaction: plasma treatment in action. *RSC Advances*, **2015**, 5, 41428-41436	3.7	34
418	Fullerene C60 and hybrid C60/Ti films as substrates for adhesion and growth of bone cells. *Physica Status Solidi (A) Applications and Materials Science*, **2008**, 205, 2252-2261	1.6	34
417	Adhesion and proliferation of rat vascular smooth muscle cells (VSMC) on polyethylene implanted with O+ and C+ ions. *Journal of Biomaterials Science, Polymer Edition*, **2001**, 12, 817-34	3.5	34
416	Regular pattern formation on surface of aromatic polymers and its cytocompatibility. *Applied Surface Science*, **2016**, 370, 131-141	6.7	33
415	Flexible SERS substrate for portable Raman analysis of biosamples. *Applied Surface Science*, **2018**, 458, 95-99	6.7	33
414	Surface properties and biocompatibility of ion-implanted polymers. *Journal of Materials Chemistry*, **1995**, 5, 27-30		33
413	Smart, Piezo-Responsive Polyvinylidenefluoride/Polymethylmethacrylate Surface with Triggerable Water/Oil Wettability and Adhesion. *ACS Applied Materials & Interfaces*, **2018**, 10, 37461-37469	9.5	33

412	Smart Component for Switching of Plasmon Resonance by External Electric Field. *ACS Applied Materials & Interfaces*, **2016**, 8, 225-31	9.5	32
411	Poly-l -lactic acid modified by etching and grafting with gold nanoparticles. *Journal of Materials Science*, **2013**, 48, 5871-5879	4.3	32
410	Polyethylene naphthalate as an excellent candidate for ripple nanopatterning. *Applied Surface Science*, **2013**, 285, 885-892	6.7	32
409	Laser-induced periodic surface structures on polymers for formation of gold nanowires and activation of human cells. *Applied Physics A: Materials Science and Processing*, **2014**, 117, 295-300	2.6	32
408	Precise cancer detection via the combination of functionalized SERS surfaces and convolutional neural network with independent inputs. *Sensors and Actuators B: Chemical*, **2020**, 308, 127660	8.5	32
407	Enhanced adherence of mouse fibroblast and vascular cells to plasma modified polyethylene. *Materials Science and Engineering C*, **2015**, 52, 259-66	8.3	31
406	Improved adhesion, growth and maturation of vascular smooth muscle cells on polyethylene grafted with bioactive molecules and carbon particles. *International Journal of Molecular Sciences*, **2009**, 10, 4352-74	6.3	31
405	Properties of Au nanolayers on polyethyleneterephthalate and polytetrafluoroethylene. *Surface and Interface Analysis*, **2009**, 41, 741-745	1.5	31
404	Structure and biocompatibility of ion beam modified polyethylene. *Journal of Materials Science: Materials in Medicine*, **1997**, 8, 435-40	4.5	31
403	Unprecedented plasmon-induced nitroxide-mediated polymerization (PI-NMP): a method for preparation of functional surfaces. *Journal of Materials Chemistry A*, **2019**, 7, 12414-12419	13	30
402	Light-activated polymethylmethacrylate nanofibers with antibacterial activity. *Materials Science and Engineering C*, **2016**, 64, 229-235	8.3	30
401	Grafting of gold nanoparticles and nanorods on plasma-treated polymers by thiols. *Journal of Materials Science*, **2012**, 47, 6297-6304	4.3	30
400	Properties of Au nanolayer sputtered on polyethyleneterephthalate. *Materials Letters*, **2010**, 64, 611-613	3.3	30
399	Cell proliferation on UV-excimer lamp modified and grafted polytetrafluoroethylene. *Nuclear Instruments & Methods in Physics Research B*, **2004**, 217, 307-313	1.2	30
398	Silver nanowires prepared on PET structured by laser irradiation. *Materials Letters*, **2014**, 117, 184-187	3.3	29
397	Large-Scale, Ultrasensitive, Highly Reproducible and Reusable Smart SERS Platform Based on PNIPAm-Grafted Gold Grating. *ChemNanoMat*, **2017**, 3, 135-144	3.5	29
396	Au nanolayers deposited on polyethyleneterephtalate and polytetrafluorethylene degraded by plasma discharge. *Surface and Interface Analysis*, **2007**, 39, 79-85	1.5	29
395	Characterization and cytocompatibility of carbon layers prepared by photo-induced chemical vapor deposition. *Thin Solid Films*, **2007**, 515, 6765-6772	2.2	29

394	Express and portable label-free DNA detection and recognition with SERS platform based on functional Au grating. *Applied Surface Science*, **2019**, 470, 219-227	6.7	29
393	Cytotoxicity of noble metal nanoparticles sputtered into glycerol. *Materials Letters*, **2015**, 158, 351-354	3.3	28
392	SERS platform for detection of lipids and disease markers prepared using modification of plasmonic-active gold gratings by lipophilic moieties. *Sensors and Actuators B: Chemical*, **2018**, 265, 182-192	8.5	28
391	Plasma treated polyethylene grafted with adhesive molecules for enhanced adhesion and growth of fibroblasts. *Materials Science and Engineering C*, **2013**, 33, 1116-24	8.3	28
390	"Soft and rigid" dithiols and Au nanoparticles grafting on plasma-treated polyethyleneterephthalate. *Nanoscale Research Letters*, **2011**, 6, 607	5	28
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388	Gold coating of polyethylene modified by argon plasma discharge. *Polymer Engineering and Science*, **2006**, 46, 1326-1332	2.3	28
387	Colonization of ion-modified polyethylene with vascular smooth muscle cells in vitro. *Biomaterials*, **2002**, 23, 2989-96	15.6	28
386	Grafting of bovine serum albumin proteins on plasma-modified polymers for potential application in tissue engineering. *Nanoscale Research Letters*, **2014**, 9, 161	5	27
385	Cell adhesion and proliferation on polyethylene grafted with Au nanoparticles. *Nuclear Instruments & Methods in Physics Research B*, **2012**, 272, 391-395	1.2	27
384	Gold nanolayer and nanocluster coatings induced by heat treatment and evaporation technique. *Nanoscale Research Letters*, **2013**, 8, 249	5	27
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382	Polymer surface patterning by laser scanning. *Applied Physics B: Lasers and Optics*, **2013**, 110, 539-549	1.9	27
381	Amino acids grafting of Ar+ ions modified PE. *Radiation Physics and Chemistry*, **2001**, 60, 89-93	2.5	27
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379	Biocompatibility of plasma nanostructured biopolymers. *Nuclear Instruments & Methods in Physics Research B*, **2013**, 307, 642-646	1.2	26
378	Influence of dehydration on the dielectric and structural properties of organically modified montmorillonite and halloysite nanotubes. *Applied Clay Science*, **2017**, 147, 19-27	5.2	26
377	Surface characterization and antibacterial response of silver nanowire arrays supported on laser-treated polyethylene naphthalate. *Materials Science and Engineering C*, **2017**, 72, 512-518	8.3	26

376	Preparation of periodic surface structures on doped poly(methyl metacrylate) films by irradiation with KrF excimer laser. *Nanoscale Research Letters*, **2014**, 9, 591	5	26
375	Degradation of PET, PEEK and PI induced by irradiation with 150 keV Ar+ and 1.76 MeV He+ ions. *Nuclear Instruments & Methods in Physics Research B*, **2005**, 240, 245-249	1.2	26
374	Label-free surface-enhanced Raman spectroscopy with artificial neural network technique for recognition photoinduced DNA damage. *Biosensors and Bioelectronics*, **2019**, 145, 111718	11.8	25
373	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	4.6	25
372	Gold, Silver and Carbon Nanoparticles Grafted on Activated Polymers for Biomedical Applications. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 10053-73	1.3	25
371	Nanostructured silver coatings on polyimide and their antibacterial response. *Materials Letters*, **2015**, 145, 87-90	3.3	25
370	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	3.4	25
369	Plasmon Catalysis on Bimetallic Surfaces: Selective Hydrogenation of Alkynes to Alkanes or Alkenes. *Journal of Physical Chemistry C*, **2018**, 122, 26613-26622	3.8	25
368	Porphyrin-silver nanoparticles hybrids: Synthesis, characterization and antibacterial activity. *Materials Science and Engineering C*, **2019**, 102, 192-199	8.3	24
367	Properties of polyimide, polyetheretherketone and polyethyleneterephthalate implanted by Ni ions to high fluences. *Nuclear Instruments & Methods in Physics Research B*, **2012**, 272, 396-399	1.2	24
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362	Surface Plasmon-Polariton: A Novel Way To Initiate Azide-Alkyne Cycloaddition. *Langmuir*, **2019**, 35, 2023-2032	3.4	23
361	Cytocompatibility of polymers grafted by activated carbon nano-particles. *Carbon*, **2014**, 69, 361-371	10.4	23
360	Controlled biopolymer roughness induced by plasma and excimer laser treatment. *EXPRESS Polymer Letters*, **2013**, 7, 950-958	3.4	23
359	Nano-structuring of PTFE surface by plasma treatment, etching, and sputtering with gold. *Journal of Nanoparticle Research*, **2011**, 13, 2929-2938	2.3	23

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357	Plasmon-Induced Water Splitting-through Flexible Hybrid 2D Architecture up to Hydrogen from Seawater under NIR Light. *ACS Applied Materials & Interfaces*, **2020**, 12, 28110-28119	9.5	22
356	Immobilization of silver nanoparticles on polyethylene terephthalate. *Nanoscale Research Letters*, **2014**, 9, 305	5	22
355	Gold nanoparticles deposited on glass: physicochemical characterization and cytocompatibility. *Nanoscale Research Letters*, **2013**, 8, 252	5	22
354	Au nanoparticles grafted on plasma treated polymers. *Journal of Materials Science*, **2011**, 46, 7917-7922	4.3	22
353	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	3.5	22
352	Polarity, resistivity and biocompatibility of polyethylene doped with carbon black. *Journal of Materials Science Letters*, **1995**, 14, 1723-1724		22
351	Fast and Reproducible Wettability Switching on Functionalized PVDF/PMMA Surface Controlled by External Electric Field. *Advanced Materials Interfaces*, **2017**, 4, 1600886	4.6	21
350	Basic electrochemical properties of sputtered gold film electrodes. *Electrochimica Acta*, **2017**, 251, 452-460	6.9	21
349	Synthesis of grafted polyethylene by ion beam modification. *Polymer Degradation and Stability*, **1997**, 58, 143-147	4.7	21
348	Plasmon-Polariton Induced, from Surface 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	4.6	21
347	Comparison of KrF and ArF excimer laser treatment of biopolymer surface. *Applied Surface Science*, **2015**, 339, 144-150	6.7	20
346	Tunable release of silver nanoparticles from temperature-responsive polymer blends. *Reactive and Functional Polymers*, **2015**, 93, 163-169	4.6	20
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344	Plasmon-Assisted Activation and Grafting by Iodonium Salt: Functionalization of Optical Fiber Surface. *Advanced Materials Interfaces*, **2018**, 5, 1800725	4.6	20
343	Formation and antibacterial action of Pt and Pd nanoparticles sputtered into liquid. *Micro and Nano Letters*, **2014**, 9, 778-781	0.9	20
342	Electron beam modification of polyethylene and polystyrene. *Journal of Applied Polymer Science*, **1997**, 64, 2529-2533	2.9	20
341	Preparation of Selective and Reproducible SERS Sensors of Hg Ions via a Sunlight-Induced Thiol?Yne Reaction on Gold Gratings. *Sensors*, **2019**, 19,	3.8	19

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337	Au-nanoparticles grafted on plasma treated PE. *Radiation Physics and Chemistry*, **2010**, 79, 315-317	2.5	19
336	Lattice parameter and expected density of Au nano-structures sputtered on glass. *Materials Letters* , **2010**, 64, 1160-1162	3.3	19
335	Modification of poly(ether ether ketone) by ion irradiation. *Nuclear Instruments & Methods in Physics Research B*, **2008**, 266, 283-287	1.2	19
334	Free volume-limited diffusion in ion-modified polymers. *Journal of Applied Polymer Science*, **1996**, 61, 1097-1100	2.9	19
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330	Pattern formation in PMMA film induced by electric field. *Journal of Polymer Science, Part B: Polymer Physics*, **2009**, 47, 1131-1135	2.6	18
329	Temperature dependence of the permittivity of polymer composites. *Journal of Polymer Science, Part B: Polymer Physics*, **2001**, 39, 831-834	2.6	18
328	Enantioselective SERS sensing of pseudoephedrine in blood plasma biomatrix by hierarchical mesoporous Au films coated with a homochiral MOF. *Biosensors and Bioelectronics*, **2021**, 180, 113109	11.8	18
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326	Round-shape gold nanoparticles: effect of particle size and concentration on Arabidopsis thaliana root growth. *Nanoscale Research Letters*, **2018**, 13, 95	5	17
325	Spatially selective modification of PLLA surface: From hydrophobic to hydrophilic or to repellent. *Applied Surface Science*, **2017**, 397, 226-234	6.7	17
324	Self-organized gold nanostructures on laser patterned PET. *Surface and Coatings Technology*, **2011**, 206, 517-521	4.4	17
323	Preparation of rib channel waveguides on polymer in electric field. *Thin Solid Films*, **2010**, 519, 1452-1457	2.2	17

322	Cell adhesion on modified polyethylene. *Journal of Materials Science*, **2002**, 37, 1183-1188	4.3	17
321	Tuning of PEDOT:PSS Properties Through Covalent Surface Modification. *Journal of Polymer Science, Part B: Polymer Physics*, **2017**, 55, 378-387	2.6	16
320	Cytocompatibility of amine functionalized carbon nanoparticles grafted on polyethylene. *Materials Science and Engineering C*, **2016**, 60, 394-401	8.3	16
319	Surface properties of polymers treated with F2 laser. *Surface and Interface Analysis*, **2012**, 44, 296-300	1.5	16
318	The characterization of PEEK, PET and PI implanted with Co ions to high fluences. *Applied Surface Science*, **2013**, 275, 311-315	6.7	16
317	Oxygen incorporation in polyethylene and polypropylene implanted with F+, As+ and I+ ions at high dose. *Applied Physics A: Solids and Surfaces*, **1994**, 58, 349-352		16
316	Antibacterial properties of palladium nanostructures sputtered on polyethylene naphthalate. *RSC Advances*, **2015**, 5, 73767-73774	3.7	15
315	A study of the degradation of polymers irradiated by Cn+ and On+ 9.6 MeV heavy ions. *Polymer Degradation and Stability*, **2015**, 122, 110-121	4.7	15
314	Patterning of ultrathin polymethylmethacrylate films by in-situ photodirecting of the Marangoni flow. *Applied Surface Science*, **2017**, 394, 562-568	6.7	15
313	Silver nanostructures: From individual dots to coupled strips for the tailoring of SERS excitation wavelength from near-UV to near-IR. *Electronic Materials Letters*, **2015**, 11, 288-294	2.9	15
312	Silver Nanoparticles Stabilized Using Chitosan Films: Preparation, Properties and Antibacterial Activity. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 10120-6	1.3	15
311	Oriented gold ripple-like structures on poly-l-lactic acid. *Applied Surface Science*, **2014**, 321, 503-510	6.7	15
310	Surface changes of biopolymers PHB and PLLA induced by Ar+ plasma treatment and wet etching. *Nuclear Instruments & Methods in Physics Research B*, **2014**, 332, 63-67	1.2	15
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