

Vaclav Svorcik

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Influence of UV irradiation and subsequent chemical grafting on the surface properties of cellulose. <i>Cellulose</i> , 2022 , 29, 1405	5.5	0
482	Plasma treatment of PTFE at elevated temperature: The effect of surface properties on its biological performance. <i>Materials Today Communications</i> , 2022 , 31, 103254	2.5	0
481	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	6.6	2
480	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	9.6	0
479	In-situ generation of Au nanoparticles in poly(methyl methacrylate) films via MeV proton irradiation. <i>Materials Chemistry and Physics</i> , 2022 , 275, 125205	4.4	1
478	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. <i>ACS Applied Nano Materials</i> , 2022 , 5, 1836-1844	5.6	0
477	Periodical amphiphilic surface with chemical patterning for micelles immobilization and analysis. <i>Applied Surface Science</i> , 2022 , 586, 152833	6.7	
476	Design of Hybrid Au Grating/TiO ₂ Structure for NIR Enhanced Photo-Electrochemical Water Splitting. <i>Chemical Engineering Journal</i> , 2022 , 136440	14.7	1
475	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 , 136939	14.7	3
474	Quantitative detection of α -acid glycoprotein (AGP) level in blood plasma using SERS and CNN transfer learning approach. <i>Sensors and Actuators B: Chemical</i> , 2022 , 367, 132057	8.5	0
473	Diazonium-Modification of Plasmonic Surfaces Formed by Laser Ablation. <i>Physical Chemistry in Action</i> , 2022 , 345-357		
472	Printable Resin Modified by Grafted Silver Nanoparticles for Preparation of Antifouling Microstructures with Antibacterial Effect. <i>Polymers</i> , 2021 , 13,	4.5	1
471	Physically Switchable Antimicrobial Surfaces and Coatings: General Concept and Recent Achievements. <i>Nanomaterials</i> , 2021 , 11,	5.4	5
470	Polypyrrole-Based Nanorobots Powered by Light and Glucose for Pollutant Degradation in Water. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 16173-16181	9.5	10
469	PEGylated Gold Nanoparticles Grafted with N-Acetyl-L-Cysteine for Polymer Modification. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
468	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	11.8	18
467	Plasmon-Assisted Transfer Hydrogenation: Kinetic Control of Reaction Chemoselectivity through a Light Illumination Mode. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 10318-10325	3.8	2

466	Surface Texturing of Polyethylene Terephthalate Induced by Excimer Laser in Silver Nanoparticle Colloids. <i>Materials</i> , 2021 , 14,	3.5	1
465	Antibacterial Properties of a Honeycomb-like Pattern with Cellulose Acetate and Silver Nanoparticles. <i>Materials</i> , 2021 , 14,	3.5	1
464	Reversible wettability switching of piezo-responsive nanostructured polymer fibers by electric field. <i>Chemical Papers</i> , 2021 , 75, 191-196	1.9	3
463	Smart recycling of PET to sorbents for insecticides through in situ MOF growth. <i>Applied Materials Today</i> , 2021 , 22, 100910	6.6	8
462	Establishing plasmon contribution to chemical reactions: alkoxyamines as a thermal probe. <i>Chemical Science</i> , 2021 , 12, 4154-4161	9.4	3
461	Detection of trace amounts of insoluble pharmaceuticals in water by extraction and SERS measurements in a microfluidic flow regime. <i>Analyst, The</i> , 2021 , 146, 3686-3696	5	5
460	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	13	3
459	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	13	5
458	Antibacterial Properties of Plasma-Activated Perfluorinated Substrates with Silver Nanoclusters Deposition. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
457	Plasmon-assisted click chemistry at low temperature: an inverse temperature effect on the reaction rate. <i>Chemical Science</i> , 2021 , 12, 5591-5598	9.4	4
456	Nonlinear optical properties and markedly higher two photon absorption of ordered c-shaped plasmon-active metal nanostructures. <i>Optical Materials</i> , 2021 , 112, 110695	3.3	2
455	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	3.5	2
454	Cell Behavior of Primary Fibroblasts and Osteoblasts on Plasma-Treated Fluorinated Polymer Coated with Honeycomb Polystyrene. <i>Materials</i> , 2021 , 14,	3.5	1
453	Polymer icephobic surface by graphite coating and chemical grafting with diazonium salts. <i>Surfaces and Interfaces</i> , 2021 , 25, 101226	4.1	1
452	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	9.5	3
451	Carbon Nanostructures, Nanolayers, and Their Composites. <i>Nanomaterials</i> , 2021 , 11,	5.4	10
450	Chiroplasmon-active optical fiber probe for environment chirality estimation. <i>Sensors and Actuators B: Chemical</i> , 2021 , 343, 130122	8.5	2
449	Bimetallic Nanowires on Laser-Patterned PEN as Promising Biomaterials. <i>Nanomaterials</i> , 2021 , 11,	5.4	1

448	Carbon-gold nanocomposite induced by unique high energy laser single-shot annealing. <i>Materials Letters</i> , 2021 , 301, 130256	3.3	1
447	PTFE Based Multilayer Micro-Coatings for Aluminum AlMg3 Forms Used in Tire Production. <i>Coatings</i> , 2021 , 11, 119	2.9	1
446	Honeycomb-patterned poly(L-lactic) acid on plasma-activated FEP as cell culture scaffold. <i>Polymer Degradation and Stability</i> , 2020 , 181, 109370	4.7	5
445	Photochemical Preparation of Silver Colloids in Hydroxypropyl Methylcellulose for Antibacterial Materials with Controlled Release of Silver. <i>Coatings</i> , 2020 , 10, 1046	2.9	3
444	Effects of Bacterial Nanocellulose Loaded with Curcumin and Its Degradation Products on Human Dermal Fibroblasts. <i>Materials</i> , 2020 , 13,	3.5	1
443	PLLA Honeycomb-Like Pattern on Fluorinated Ethylene Propylene as a Substrate for Fibroblast Growth. <i>Polymers</i> , 2020 , 12,	4.5	2
442	Homochiral metal-organic frameworks functionalized SERS substrate for atto-molar enantio-selective detection. <i>Applied Materials Today</i> , 2020 , 20, 100666	6.6	6
441	A new way to prepare gold nanoparticles by sputtering - Sterilization, stability and other properties. <i>Materials Science and Engineering C</i> , 2020 , 115, 111087	8.3	8
440	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	9.5	22
439	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	1.5	2
438	Copper layers sputtered on PTFE: Effect of annealing on antibacterial performance. <i>Materials Today Communications</i> , 2020 , 24, 101207	2.5	3
437	Proton exchange membrane with plasmon-active surface for enhancement of fuel cell effectivity. <i>Nanoscale</i> , 2020 , 12, 12068-12075	7.7	3
436	Plasmon-assisted grafting of anisotropic nanoparticles - spatially selective surface modification and the creation of amphiphilic SERS nanoprobos. <i>Nanoscale</i> , 2020 , 12, 14581-14588	7.7	11
435	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	5.7	7
434	Comparison of GO and polymer microcapacitors prepared by ion beam writing. <i>Surface and Interface Analysis</i> , 2020 , 52, 1171-1177	1.5	
433	Antimicrobial effect of polymers grafted with cinnamaldehyde. <i>Materials Letters</i> , 2020 , 277, 128274	3.3	5
432	Microcapacitors on graphene oxide and synthetic polymers prepared by microbeam lithography. <i>Applied Surface Science</i> , 2020 , 528, 146802	6.7	3
431	Can Plasmon Change Reaction Path? Decomposition of Unsymmetrical Iodonium Salts as an Organic Probe. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 5770-5776	6.4	20

430	Nanostructuring of honeycomb-like polystyrene with excimer laser. <i>Progress in Organic Coatings</i> , 2020 , 145, 105670	4.8	4
429	Antibacterial properties of silver coated regenerated cellulose. <i>Micro and Nano Letters</i> , 2020 , 15, 159-160.	6.9	1
428	Optomechanical Processing of Silver Colloids: New Generation of Nanoparticle-Polymer Composites with Bactericidal Effect. <i>International Journal of Molecular Sciences</i> , 2020 , 22,	6.3	4
427	Plasmon-active optical fiber functionalized by metal organic framework for pesticide detection. <i>Talanta</i> , 2020 , 208, 120480	6.2	15
426	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	8.5	32
425	Single Plasmon-Active Optical Fiber Probe for Instantaneous Chiral Detection. <i>ACS Sensors</i> , 2020 , 5, 50-56.	6.2	4
424	Cellulose acetate honeycomb-like pattern created by improved phase separation. <i>EXPRESS Polymer Letters</i> , 2020 , 14, 1078-1088	3.4	4
423	Application of a 2D Molybdenum Telluride in SERS Detection of Biorelevant Molecules. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 47774-47783	9.5	14
422	Versatile and Scalable Icephobization of Airspace Composite by Surface Morphology and Chemistry Tuning. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 977-986	4.3	8
421	Plasma-Activated Polyvinyl Alcohol Foils for Cell Growth. <i>Coatings</i> , 2020 , 10, 1083	2.9	0
420	Taking the power of plasmon-assisted chemistry on copper NPs: Preparation and application of COFs nanostructures for CO2 sensing in water. <i>Microporous and Mesoporous Materials</i> , 2020 , 309, 110577.	5.3	3
419	Nanostructured Polystyrene Doped with Acetylsalicylic Acid and Its Antibacterial Properties. <i>Materials</i> , 2020 , 13,	3.5	2
418	Cu phthalocyanine, Cu and Fe@Au nanoparticles grafted polyethylene: From structural to magnetic properties. <i>Materials Chemistry and Physics</i> , 2020 , 239, 122104	4.4	0
417	Enhancement of Surface Plasmon Fiber Sensor Sensitivity Through the Grafting of Gold Nanoparticles. <i>Photonic Sensors</i> , 2020 , 10, 105-112	2.3	4
416	Nanostructured Materials for Artificial Tissue Replacements. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	12
415	Effect of sterilization methods on electrospun cellulose acetate butyrate nanofibers for SH-SY5Y cultivation. <i>Reactive and Functional Polymers</i> , 2019 , 143, 104339	4.6	4
414	Beyond common analytical limits of radicals detection using the functional SERS substrates. <i>Sensors and Actuators B: Chemical</i> , 2019 , 300, 127015	8.5	5
413	Label-free surface-enhanced Raman spectroscopy with artificial neural network technique for recognition photoinduced DNA damage. <i>Biosensors and Bioelectronics</i> , 2019 , 145, 111718	11.8	25

412	Antibacterial properties of angle-dependent nanopatterns on polystyrene. <i>Reactive and Functional Polymers</i> , 2019 , 136, 173-180	4.6	3
411	Versatile Application of Nanocellulose: From Industry to Skin Tissue Engineering and Wound Healing. <i>Nanomaterials</i> , 2019 , 9,	5.4	155
410	Surface Plasmon-Polariton: A Novel Way To Initiate Azide-Alkyne Cycloaddition. <i>Langmuir</i> , 2019 , 35, 2023-2032	3	23
409	Rapid SERS-based recognition of cell secretome on the folic acid-functionalized gold gratings. <i>Analytical and Bioanalytical Chemistry</i> , 2019 , 411, 3309-3319	4.4	8
408	Preparation of Selective and Reproducible SERS Sensors of Hg Ions via a Sunlight-Induced Thiol-Yne Reaction on Gold Gratings. <i>Sensors</i> , 2019 , 19,	3.8	19
407	Honeycomb-like pattern formation on perfluoroethylenepropylene enhanced by plasma treatment. <i>Plasma Processes and Polymers</i> , 2019 , 16, 1900063	3.4	5
406	Argon plasma-treated fluorinated ethylene propylene: Growth of primary dermal fibroblasts and mesenchymal stem cells. <i>Tissue and Cell</i> , 2019 , 58, 121-129	2.7	3
405	Dual-Action Flexible Antimicrobial Material: Switchable Self-Cleaning, Antifouling, and Smart Drug Release. <i>Advanced Functional Materials</i> , 2019 , 29, 1901880	15.6	45
404	Application of Plasmon-Induced Lithography for Creation of a Residual-Free Pattern and Simple Surface Modifications. <i>ACS Omega</i> , 2019 , 4, 5534-5539	3.9	1
403	Heat-treated carbon coatings on poly (l-lactide) foils for tissue engineering. <i>Materials Science and Engineering C</i> , 2019 , 100, 117-128	8.3	5
402	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	6.6	48
401	Biocompatibility of Ar plasma-treated fluorinated ethylene propylene: Adhesion and viability of human keratinocytes. <i>Materials Science and Engineering C</i> , 2019 , 100, 269-275	8.3	6
400	Porphyrin-silver nanoparticles hybrids: Synthesis, characterization and antibacterial activity. <i>Materials Science and Engineering C</i> , 2019 , 102, 192-199	8.3	24
399	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	13	30
398	The influence of surface treatment and activation of thin film composite membranes with plasma discharge and determination of their physicochemical properties. <i>Separation and Purification Technology</i> , 2019 , 220, 52-60	8.3	8
397	Dual Mode Chip Enantioselective Express Discrimination of Chiral Amines via Wettability-Based Mobile Application and Portable Surface-Enhanced Raman Spectroscopy Measurements. <i>ACS Sensors</i> , 2019 , 4, 1032-1039	9.2	19
396	Carbon nanostructures grafted biopolymers for medical applications. <i>Materials Technology</i> , 2019 , 34, 376-385	2.1	2
395	Multiresponsive Wettability Switching on Polymer Surface: Effect of Surface Chemistry and/or Morphology Tuning. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1801937	4.6	8

394	Chemical modification of gold surface via UV-generated aryl radicals derived 3,5-bis(trifluoromethyl)phenyl)iodonium salt. <i>Progress in Organic Coatings</i> , 2019 , 136, 105211	4.8	7
393	Testing the applicability of LDPE/HNT composites for cable core insulation. <i>Polymer Testing</i> , 2019 , 78, 105993	4.5	7
392	Effect of Amines Addition on Properties and Stability of PEGylated Au Nanoparticles. <i>Key Engineering Materials</i> , 2019 , 793, 47-52	0.4	
391	Structurally controlled cell growth on modified polymer surfaces. <i>Vacuum</i> , 2019 , 169, 108956	3.7	1
390	Surface Modification of Polymer Substrates for Biomedical Applications 2019 , 399-426		1
389	Silver nanoparticles grafted onto PET: Effect of preparation method on antibacterial activity. <i>Reactive and Functional Polymers</i> , 2019 , 145, 104376	4.6	7
388	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	1.2	3
387	Methods of Gold and Silver Nanoparticles Preparation. <i>Materials</i> , 2019 , 13,	3.5	106
386	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	3.8	12
385	Flexible Conductive Polymer Film Grafted with Azo-Moieties and Patterned by Light Illumination with Anisotropic Conductivity. <i>Polymers</i> , 2019 , 11,	4.5	4
384	LIPSS Structures Induced on Graphene-Polystyrene Composite. <i>Materials</i> , 2019 , 12,	3.5	5
383	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	9.2	24
382	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	7.3	10
381	Plasmon-assisted self-cleaning sensor for the detection of organosulfur compounds in fuels. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 14181-14187	7.1	5
380	Optimization of silver nanowire formation on laser processed PEN: Surface properties and antibacterial effects. <i>Applied Surface Science</i> , 2019 , 473, 516-526	6.7	14
379	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	6.7	29
378	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	5.6	2
377	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	3.9	4

376	Reaction parameters of in situ silver chloride precipitation on cellulose fibres. <i>Materials Science and Engineering C</i> , 2019 , 95, 134-142	8.3	6
375	Immobilization of Fe@Au superparamagnetic nanoparticles on polyethylene. <i>European Polymer Journal</i> , 2019 , 110, 56-62	5.2	4
374	Helicene-SPP-Based Chiral Plasmonic Hybrid Structure: Toward Direct Enantiomers SERS Discrimination. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1555-1562	9.5	35
373	Antimicrobial and photophysical properties of chemically grafted ultra-high-molecular-weight polyethylene. <i>Materials Science and Engineering C</i> , 2019 , 96, 479-486	8.3	8
372	PEGylated gold nanoparticles: Stability, cytotoxicity and antibacterial activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 560, 26-34	5.1	27
371	LIPSS with gold nanoclusters prepared by combination of heat treatment and KrF exposure. <i>Applied Surface Science</i> , 2019 , 465, 919-928	6.7	9
370	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	5.9	8
369	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	8.5	28
368	Grafting of platinum nanostructures on biopolymer at elevated temperature. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018 , 546, 316-325	5.1	3
367	Surface instability on polyethersulfone induced by dual laser treatment for husk nanostructure construction. <i>Reactive and Functional Polymers</i> , 2018 , 125, 20-28	4.6	6
366	Functional and Switchable Amphiphilic PMMA Surface Prepared by 3D Selective Modification. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701182	4.6	12
365	Magnetic and Surface Properties of Metallophthalocyanines (M = Cu, Fe) Grafted Polyethylene. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1396-1403	3.8	3
364	Polymer nanostructures for bioapplications induced by laser treatment. <i>Biotechnology Advances</i> , 2018 , 36, 839-855	17.8	45
363	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	17.8	164
362	Reversible switching of PEDOT:PSS conductivity in the dielectric-conductive range through the redistribution of light-governing polymers.. <i>RSC Advances</i> , 2018 , 8, 11198-11206	3.7	8
361	Hydrophilic/hydrophobic surface modification impact on colloid lithography: Schottky-like defects, dislocation, and ideal distribution. <i>Applied Surface Science</i> , 2018 , 433, 443-448	6.7	8
360	Flexible SERS substrate for portable Raman analysis of biosamples. <i>Applied Surface Science</i> , 2018 , 458, 95-99	6.7	33
359	Round-shape gold nanoparticles: effect of particle size and concentration on Arabidopsis thaliana root growth. <i>Nanoscale Research Letters</i> , 2018 , 13, 95	5	17

358	Structural study and ion-beam channelling in Si <1 0 0> modified by Kr+, Ag+, 2+ and Au+, 2+ ions. <i>Applied Surface Science</i> , 2018 , 458, 722-733	6.7	4
357	Plasmon-Assisted Activation and Grafting by Iodonium Salt: Functionalization of Optical Fiber Surface. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1800725	4.6	20
356	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	8.5	11
355	Properties of polyamide nanofibers treated by UV-A radiation. <i>Materials Letters</i> , 2018 , 214, 264-267	3.3	11
354	Underwater Laser Treatment of PET: Effect of Processing Parameters on Surface Morphology and Chemistry. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2389	2.6	5
353	Substrate Effects of Noble Metal Nanostructures Prepared by Sputtering 2018 ,		1
352	Plasmon-Polariton Induced, From Surface RAFT Polymerization, as a Way toward Creation of Grafted Polymer Films with Thickness Precisely Controlled by Self-Limiting Mechanism. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1801042	4.6	21
351	Deposition of thin metal layers on chitosan films. <i>Materials Technology</i> , 2018 , 33, 845-853	2.1	15
350	Vapor Annealing and Colloid Lithography: An Effective Tool To Control Spatial Resolution of Surface Modification. <i>Langmuir</i> , 2018 , 34, 12861-12869	4	4
349	Pd nanowire coatings of laser-treated polyethylene naphthalate: Preparation, characterization and biological response. <i>EXPRESS Polymer Letters</i> , 2018 , 12, 1039-1046	3.4	4
348	Plasmon Catalysis on Bimetallic Surface Selective Hydrogenation of Alkynes to Alkanes or Alkenes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 26613-26622	3.8	25
347	Smart, Piezo-Responsive Polyvinylidene fluoride/Polymethylmethacrylate Surface with Triggerable Water/Oil Wettability and Adhesion. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37461-37469	9.5	33
346	Plasma induced cytocompatibility of stabilized poly-L-lactic acid doped with graphene nanoplatelets. <i>Reactive and Functional Polymers</i> , 2018 , 131, 266-275	4.6	8
345	Laser modification of graphene oxide layers. <i>EPJ Web of Conferences</i> , 2018 , 167, 04010	0.3	5
344	Laser patterning of transparent polymers assisted by plasmon excitation. <i>Soft Matter</i> , 2018 , 14, 4860-4865	9.5	3
343	Radicals mediated magnetism in Ar plasma treated high-density polyethylene. <i>Journal of Magnetism and Magnetic Materials</i> , 2018 , 454, 185-189	2.8	2
342	Surface analysis of ripple pattern on PS and PEN induced with ring-shaped mask due to KrF laser treatment. <i>Surface and Interface Analysis</i> , 2017 , 49, 25-33	1.5	6
341	Tuning of PEDOT:PSS Properties Through Covalent Surface Modification. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017 , 55, 378-387	2.6	16

340	Wrinkle pattern on PLLA induced by stress of polymer-metal bilayer. <i>Surface and Coatings Technology</i> , 2017 , 311, 344-350	4.4	12
339	Synthesis, Characterization, and Antimicrobial Activity of Near-IR Photoactive Functionalized Gold Multibranching Nanoparticles. <i>ChemistryOpen</i> , 2017 , 6, 254-260	2.3	18
338	Simulation of RBS spectra with known 3D sample surface roughness. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 406, 99-103	1.2	2
337	Preparation, aging and temperature stability of PEGylated gold nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 523, 91-97	5.1	14
336	Ultrasensitive and reproducible SERS platform of coupled Ag grating with multibranching Au nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 14761-14769	3.6	35
335	Copper/gold sandwich structures on PE and PET and their SERS enhancement effect. <i>RSC Advances</i> , 2017 , 7, 23055-23064	3.7	7
334	Angular resolved transmission spectra of corrugated metallic films and gratings: Localized and surface plasmons. <i>Materials Letters</i> , 2017 , 203, 32-36	3.3	
333	Cytocompatibility of polyethylene grafted with triethylenetetramine functionalized carbon nanoparticles. <i>Applied Surface Science</i> , 2017 , 422, 809-816	6.7	10
332	Laser-assisted immobilization of colloid silver nanoparticles on polyethyleneterephthalate. <i>Applied Surface Science</i> , 2017 , 420, 661-668	6.7	14
331	Cell adhesion and proliferation on poly(tetrafluoroethylene) with plasma metal and plasma metal/carbon interfaces. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 06GG03	1.4	3
330	Compositional, structural, and optical changes of polyimide implanted by 1.0 MeV Ni ⁺ ions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 406, 199-204	1.2	8
329	Surface roughness in action - Cells in opposition. <i>Materials Science and Engineering C</i> , 2017 , 76, 818-826	8.3	17
328	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	5.1	48
327	Temperature-responsive PLLA/PNIPAM nanofibers for switchable release. <i>Materials Science and Engineering C</i> , 2017 , 72, 293-300	8.3	47
326	Fast and Reproducible Wettability Switching on Functionalized PVDF/PMMA Surface Controlled by External Electric Field. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600886	4.6	21
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141	Au-nanoparticles grafted on plasma treated PE. <i>Radiation Physics and Chemistry</i> , 2010 , 79, 315-317	2.5	19
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137	Influence of substrate on properties of gold nanolayers. <i>Materials Letters</i> , 2010 , 64, 1316-1318	3.3	8
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135	Preparation of rib channel waveguides on polymer in electric field. <i>Thin Solid Films</i> , 2010 , 519, 1452-1457	2.2	17
134	Regular surface grating on doped polymer induced by laser scanning. <i>Applied Physics Letters</i> , 2009 , 95, 173103	3.4	23
133	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, 4352-74	6.3	31
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129	Characterisation of Ni ⁺ implanted PEEK, PET and PI. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009 , 267, 1549-1552	1.2	24
128	Cytocompatibility of Ar ⁺ plasma treated and Au nanoparticle-grafted PE. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009 , 267, 1904-1910	1.2	49
127	Characterization of carbon nanolayers flash evaporated on PET and PTFE. <i>Carbon</i> , 2009 , 47, 1770-1778	10.4	35
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125	Ablation and water etching of plasma-treated polymers. <i>Radiation Effects and Defects in Solids</i> , 2008 , 163, 779-788	0.9	36

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