

Franz Faupel

List of Publications by Year in descending order

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391
papers

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26626

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401
all docs

401
docs citations

401
times ranked

12223
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of argon flow and pressure on the trapping behavior of nanoparticles inside a gas aggregation source. <i>Plasma Processes and Polymers</i> , 2022, 19, e2100125.	3.0	6
2	Sensing performance of CuO/Cu ₂ O/ZnO:Fe heterostructure coated with thermally stable ultrathin hydrophobic PV3D3 polymer layer for battery application. <i>Materials Today Chemistry</i> , 2022, 23, 100642.	3.5	8
3	Adaptive Model for Magnetic Particle Mapping Using Magnetoelectric Sensors. <i>Sensors</i> , 2022, 22, 894.	3.8	1
4	In Situ Monitoring of Scale Effects on Phase Selection and Plasmonic Shifts during the Growth of AgCu Alloy Nanostructures for Anticounterfeiting Applications. <i>ACS Applied Nano Materials</i> , 2022, 5, 3832-3842.	5.0	7
5	Sparse CNT networks with implanted AgAu nanoparticles: A novel memristor with short-term memory bordering between diffusive and bipolar switching. <i>PLoS ONE</i> , 2022, 17, e0264846.	2.5	1
6	Selective Adsorption and Photocatalytic Clean-up of Oil by TiO ₂ Thin Film Decorated with pV ₃ D ₃ Modified Flowerlike Ag Nanoplates. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	3
7	Brain-like critical dynamics and long-range temporal correlations in percolating networks of silver nanoparticles and functionality preservation after integration of insulating matrix. <i>Nanoscale Advances</i> , 2022, 4, 3149-3160.	4.6	11
8	Template-Induced Growth of Sputter-Deposited Gold Nanoparticles on Ordered Porous TiO ₂ Thin Films for Surface-Enhanced Raman Scattering Sensors. <i>ACS Applied Nano Materials</i> , 2022, 5, 7492-7501.	5.0	11
9	Selective Adsorption and Photocatalytic Clean-up of Oil by TiO ₂ Thin Film Decorated with pV ₃ D ₃ Modified Flowerlike Ag Nanoplates (<i>Adv. Mater. Interfaces</i> 14/2022). <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	0
10	Diffusion in metallic glasses and undercooled metallic melts. <i>International Journal of Materials Research</i> , 2022, 95, 956-960.	0.3	0
11	A thin-film broadband perfect absorber based on plasmonic copper nanoparticles. <i>Micro and Nano Engineering</i> , 2022, 16, 100154.	2.9	6
12	Tuning wettability of TiO ₂ thin film by photocatalytic deposition of 3D flower- and hedgehog-like Au nano- and microstructures. <i>Applied Surface Science</i> , 2021, 537, 147795.	6.1	16
13	Real-time insight into nanostructure evolution during the rapid formation of ultra-thin gold layers on polymers. <i>Nanoscale Horizons</i> , 2021, 6, 132-138.	8.0	24
14	Initiated Chemical Vapor Deposition (iCVD) Functionalized Polylactic Acid-Marine Algae Composite Patch for Bone Tissue Engineering. <i>Polymers</i> , 2021, 13, 186.	4.5	11
15	Enhancing Reliability of Studies on Single Filament Memristive Switching via an Unconventional cAFM Approach. <i>Nanomaterials</i> , 2021, 11, 265.	4.1	7
16	Revealing the growth of copper on polystyrene-block-poly(ethylene oxide) diblock copolymer thin films with in situ GISAXS. <i>Nanoscale</i> , 2021, 13, 10555-10565.	5.6	11
17	Synthesis and Investigation of a Photoswitchable Copolymer Deposited via Initiated Chemical Vapor Deposition for Application in Organic Smart Surfaces. <i>ACS Applied Polymer Materials</i> , 2021, 3, 1445-1456.	4.4	9
18	Molecular Insight into Real-Time Reaction Kinetics of Free Radical Polymerization from the Vapor Phase by In-Situ Mass Spectrometry. <i>Journal of Physical Chemistry A</i> , 2021, 125, 1661-1667.	2.5	9

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19	Exchange biased delta-E effect enables the detection of low frequency pT magnetic fields with simultaneous localization. Scientific Reports, 2021, 11, 5269.	3.3	27
20	Marine Algae Incorporated Polylactide Acid Patch: Novel Candidate for Targeting Osteosarcoma Cells without Impairing the Osteoblastic Proliferation. Polymers, 2021, 13, 847.	4.5	5
21	Influence of the piezoelectric material on the signal and noise of magnetoelectric magnetic field sensors based on the delta-E effect. APL Materials, 2021, 9, .	5.1	15
22	Magnetoelastic Coupling and Delta-E Effect in Magnetoelectric Torsion Mode Resonators. Sensors, 2021, 21, 2022.	3.8	16
23	Tailoring the Optical Properties of Sputter-Deposited Gold Nanostructures on Nanostructured Titanium Dioxide Templates Based on In Situ Grazing-Incidence Small-Angle X-ray Scattering Determined Growth Laws. ACS Applied Materials & Interfaces, 2021, 13, 14728-14740.	8.0	4
24	Improved Long-Term Stability and Reduced Humidity Effect in Gas Sensing: SiO ₂ Ultra-Thin Layered ZnO Columnar Films. Advanced Materials Technologies, 2021, 6, 2001137.	5.8	24
25	Selective Silver Nanocluster Metallization on Conjugated Diblock Copolymer Templates for Sensing and Photovoltaic Applications. ACS Applied Nano Materials, 2021, 4, 4245-4255.	5.0	14
26	Curvature and Stress Effects on the Performance of Contour-Mode Resonant $\hat{\Gamma}^E$ Effect Magnetometers. Advanced Materials Technologies, 2021, 6, 2100294.	5.8	7
27	Epileptic Seizure Detection on an Ultra-Low-Power Embedded RISC-V Processor Using a Convolutional Neural Network. Biosensors, 2021, 11, 203.	4.7	19
28	TiO ₂ /Cu ₂ O/CuO Multi-Nanolayers as Sensors for H ₂ and Volatile Organic Compounds: An Experimental and Theoretical Investigation. ACS Applied Materials & Interfaces, 2021, 13, 32363-32380.	8.0	39
29	The sputter-based synthesis of tantalum oxynitride nanoparticles with architecture and bandgap controlled by design. Applied Surface Science, 2021, 559, 149974.	6.1	11
30	Heterostructure-based devices with enhanced humidity stability for H ₂ gas sensing applications in breath tests and portable batteries. Sensors and Actuators A: Physical, 2021, 329, 112804.	4.1	17
31	Tailoring the selectivity of ultralow-power heterojunction gas sensors by noble metal nanoparticle functionalization. Nano Energy, 2021, 88, 106241.	16.0	21
32	Enhancing composition control of alloy nanoparticles from gas aggregation source by in operando optical emission spectroscopy. Plasma Processes and Polymers, 2021, 18, 2000208.	3.0	12
33	Correlating Optical Reflectance with the Topology of Aluminum Nanocluster Layers Growing on Partially Conjugated Diblock Copolymer Templates. ACS Applied Materials & Interfaces, 2021, 13, 56663-56673.	8.0	9
34	Modeling and Parallel Operation of Exchange-Biased Delta-E Effect Magnetometers for Sensor Arrays. Sensors, 2021, 21, 7594.	3.8	3
35	Nucleation and Growth of Magnetron-Sputtered Ag Nanoparticles as Witnessed by Time-Resolved Small Angle X-Ray Scattering. Particle and Particle Systems Characterization, 2020, 37, 1900436.	2.3	30
36	Facile fabrication of semiconducting oxide nanostructures by direct ink writing of readily available metal microparticles and their application as low power acetone gas sensors. Nano Energy, 2020, 70, 104420.	16.0	62

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37	Following in Situ the Deposition of Gold Electrodes on Low Band Gap Polymer Films. ACS Applied Materials & Interfaces, 2020, 12, 1132-1141.	8.0	10
38	Early osteoblastic activity on TiO ₂ thin films decorated with flower-like hierarchical Au structures. RSC Advances, 2020, 10, 28935-28940.	3.6	6
39	Fundamental Noise Limits and Sensitivity of Piezoelectrically Driven Magnetoelastic Cantilevers. Journal of Microelectromechanical Systems, 2020, 29, 1347-1361.	2.5	13
40	Single CuO/Cu ₂ O/Cu Microwire Covered by a Nanowire Network as a Gas Sensor for the Detection of Battery Hazards. ACS Applied Materials & Interfaces, 2020, 12, 42248-42263.	8.0	36
41	Mapping of magnetic nanoparticles and cells using thin film magnetoelectric sensors based on the delta-E effect. Sensors and Actuators A: Physical, 2020, 309, 112023.	4.1	9
42	Pd-Functionalized ZnO:Eu Columnar Films for Room-Temperature Hydrogen Gas Sensing: A Combined Experimental and Computational Approach. ACS Applied Materials & Interfaces, 2020, 12, 24951-24964.	8.0	34
43	Surface functionalization of ZnO:Ag columnar thin films with AgAu and AgPt bimetallic alloy nanoparticles as an efficient pathway for highly sensitive gas discrimination and early hazard detection in batteries. Journal of Materials Chemistry A, 2020, 8, 16246-16264.	10.3	38
44	Multi-Mode Love-Wave SAW Magnetic-Field Sensors. Sensors, 2020, 20, 3421.	3.8	18
45	Plasmonic and non-plasmonic contributions on photocatalytic activity of Au-TiO ₂ thin film under mixed UV-visible light. Surface and Coatings Technology, 2020, 389, 125613.	4.8	26
46	PdO nanoparticles decorated TiO ₂ film with enhanced photocatalytic and self-cleaning properties. Materials Today Chemistry, 2020, 16, 100251.	3.5	22
47	Nanoscale gradient copolymer films via single-step deposition from the vapor phase. Materials Today, 2020, 37, 35-42.	14.2	20
48	Fabrication of Diazocine-Based Photochromic Organic Thin Films via Initiated Chemical Vapor Deposition. Macromolecules, 2020, 53, 1164-1170.	4.8	12
49	Photodeposition of Au Nanoclusters for Enhanced Photocatalytic Dye Degradation over TiO ₂ Thin Film. ACS Applied Materials & Interfaces, 2020, 12, 14983-14992.	8.0	75
50	Marine Algae-PLA composites as de novo alternative to porcine derived collagen membranes. Materials Today Chemistry, 2020, 17, 100276.	3.5	16
51	Fabrication and Application of TEM-Compatible Sample Grids for Ex Situ Electrical Probing. IFMBE Proceedings, 2020, , 71-74.	0.3	1
52	Low-Temperature Solution Synthesis of Au-Modified ZnO Nanowires for Highly Efficient Hydrogen Nanosensors. ACS Applied Materials & Interfaces, 2019, 11, 32115-32126.	8.0	49
53	Antibacterial, highly hydrophobic and semi transparent Ag/plasma polymer nanocomposite coating on cotton fabric obtained by plasma based co-deposition. Cellulose, 2019, 26, 8877-8894.	4.9	34
54	Mechanical-Resonance-Enhanced Thin-Film Magnetoelectric Heterostructures for Magnetometers, Mechanical Antennas, Tunable RF Inductors, and Filters. Materials, 2019, 12, 2259.	2.9	53

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55	Correlating Nanostructure, Optical and Electronic Properties of Nanogranular Silver Layers during Polymer-Template-Assisted Sputter Deposition. ACS Applied Materials & Interfaces, 2019, 11, 29416-29426.	8.0	37
56	The evolution of Ag nanoparticles inside a gas aggregation cluster source. Plasma Processes and Polymers, 2019, 16, 1900079.	3.0	20
57	Tuning ZnO Sensors Reactivity toward Volatile Organic Compounds via Ag Doping and Nanoparticle Functionalization. ACS Applied Materials & Interfaces, 2019, 11, 31452-31466.	8.0	78
58	Frequency Dependency of the Delta-E Effect and the Sensitivity of Delta-E Effect Magnetic Field Sensors. Sensors, 2019, 19, 4769.	3.8	23
59	Wet-Chemical Assembly of 2D Nanomaterials into Lightweight, Microtube-Shaped, and Macroscopic 3D Networks. ACS Applied Materials & Interfaces, 2019, 11, 44652-44663.	8.0	30
60	Love Wave Magnetic Field Sensor Modeling “from 1D to 3D Model. , 2019, , .		1
61	Pathways to Tailor Photocatalytic Performance of TiO ₂ Thin Films Deposited by Reactive Magnetron Sputtering. Materials, 2019, 12, 2840.	2.9	59
62	Ag Nanoparticles Decorated TiO ₂ Thin Films with Enhanced Photocatalytic Activity. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800898.	1.8	15
63	Superhydrophobic 3D Porous PTFE/TiO ₂ Hybrid Structures. Advanced Materials Interfaces, 2019, 6, 1801967.	3.7	19
64	3D-Printed Chemiresistive Sensor Array on Nanowire CuO/Cu ₂ O/Cu Heterojunction Nets. ACS Applied Materials & Interfaces, 2019, 11, 25508-25515.	8.0	52
65	Influence of the quality factor on the signal to noise ratio of magnetoelectric sensors based on the delta-E effect. Applied Physics Letters, 2019, 114, .	3.3	23
66	Evaporated electret films with superior charge stability based on Teflon AF 2400. Organic Electronics, 2019, 70, 167-171.	2.6	6
67	Effect of noble metal functionalization and film thickness on sensing properties of sprayed TiO ₂ ultra-thin films. Sensors and Actuators A: Physical, 2019, 293, 242-258.	4.1	19
68	Mutual interplay of ZnO micro- and nanowires and methylene blue during cyclic photocatalysis process. Journal of Environmental Chemical Engineering, 2019, 7, 103016.	6.7	92
69	Cauliflower-like CeO ₂ –TiO ₂ hybrid nanostructures with extreme photocatalytic and self-cleaning properties. Nanoscale, 2019, 11, 9840-9844.	5.6	24
70	Concept and modelling of memsensors as two terminal devices with enhanced capabilities in neuromorphic engineering. Scientific Reports, 2019, 9, 4361.	3.3	19
71	The impact of O ₂ /Ar ratio on morphology and functional properties in reactive sputtering of metal oxide thin films. Nanotechnology, 2019, 30, 235603.	2.6	20
72	Magnetic particle mapping using magnetoelectric sensors as an imaging modality. Scientific Reports, 2019, 9, 2086.	3.3	23

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73	Superhydrophobic Surfaces: Superhydrophobic 3D Porous PTFE/TiO ₂ Hybrid Structures (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT /Overdo	3.7	90
74	Tunable polytetrafluoroethylene electret films with extraordinary charge stability synthesized by initiated chemical vapor deposition for organic electronics applications. Scientific Reports, 2019, 9, 2237.	3.3	28
75	Diffusive Memristive Switching on the Nanoscale, from Individual Nanoparticles towards Scalable Nanocomposite Devices. Scientific Reports, 2019, 9, 17367.	3.3	23
76	Magnetic Sensitivity of Bending-Mode Delta-E-Effect Sensors. Physical Review Applied, 2019, 12, .	3.8	18
77	PTFEpAl ₂ O ₃ hybrid nanowires reducing thrombosis and biofouling. Nanoscale Advances, 2019, 1, 4659-4664.	4.6	10
78	Nanogenerator and piezotronic inspired concepts for energy efficient magnetic field sensors. Nano Energy, 2019, 56, 420-425.	16.0	14
79	Electret films with extremely high charge stability prepared by thermal evaporation of Teflon AF. Organic Electronics, 2018, 57, 146-150.	2.6	21
80	A comparative study of photocatalysis on highly active columnar TiO ₂ nanostructures in-air and in-solution. Solar Energy Materials and Solar Cells, 2018, 178, 170-178.	6.2	59
81	Wide Band Low Noise Love Wave Magnetic Field Sensor System. Scientific Reports, 2018, 8, 278.	3.3	89
82	(CuO-Cu ₂ O)/ZnO:Al heterojunctions for volatile organic compound detection. Sensors and Actuators B: Chemical, 2018, 255, 1362-1375.	7.8	47
83	Self-organized nanocrack networks: a pathway to enlarge catalytic surface area in sputtered ceramic thin films, showcased for photocatalytic TiO ₂ . Nanotechnology, 2018, 29, 035703.	2.6	20
84	Tuning doping and surface functionalization of columnar oxide films for volatile organic compound sensing: experiments and theory. Journal of Materials Chemistry A, 2018, 6, 23669-23682.	10.3	36
85	Magnetron-sputtered copper nanoparticles: lost in gas aggregation and found by <i>in situ</i> X-ray scattering. Nanoscale, 2018, 10, 18275-18281.	5.6	46
86	Nanoparticle forming reactive plasmas: a multidagnostic approach. European Physical Journal D, 2018, 72, 1.	1.3	6
87	Plasma based formation and deposition of metal and metal oxide nanoparticles using a gas aggregation source. European Physical Journal D, 2018, 72, 1.	1.3	29
88	Photocatalytic Growth of Hierarchical Au Needle Clusters on Highly Active TiO ₂ Thin Film. Advanced Materials Interfaces, 2018, 5, 1800465.	3.7	21
89	PdO/PdO ₂ functionalized ZnOâ€‰%â€‰Pd films for lower operating temperature H ₂ gas sensing. Nanoscale, 2018, 10, 14107-14127.	5.6	114
90	Role of UV Plasmonics in the Photocatalytic Performance of TiO ₂ Decorated with Aluminum Nanoparticles. ACS Applied Nano Materials, 2018, 1, 3760-3764.	5.0	35

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91	Ultra-thin TiO ₂ films by atomic layer deposition and surface functionalization with Au nanodots for sensing applications. Materials Science in Semiconductor Processing, 2018, 87, 44-53.	4.0	30
92	Hierarchical Structures: Photocatalytic Growth of Hierarchical Au Needle Clusters on Highly Active TiO ₂ Thin Film (Adv. Mater. Interfaces 15/2018). Advanced Materials Interfaces, 2018, 5, 1870074.	3.7	1
93	Formation of polymer-based nanoparticles and nanocomposites by plasma-assisted deposition methods. European Physical Journal D, 2018, 72, 1.	1.3	8
94	Role of Sputter Deposition Rate in Tailoring Nanogranular Gold Structures on Polymer Surfaces. ACS Applied Materials & Interfaces, 2017, 9, 5629-5637.	8.0	64
95	Atomic dynamics in Zr-based glass forming alloys near the liquidus temperature. Physical Review B, 2017, 95, .	3.2	20
96	Localized Synthesis of Iron Oxide Nanowires and Fabrication of High Performance Nanosensors Based on a Single Fe ₂ O ₃ Nanowire. Small, 2017, 13, 1602868.	10.0	111
97	Single target sputter deposition of alloy nanoparticles with adjustable composition via a gas aggregation cluster source. Nanotechnology, 2017, 28, 175703.	2.6	52
98	Tuning silver ion release properties in reactively sputtered Ag/TiO _x nanocomposites. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	7
99	Modeling and Analysis of Noise Sources for Thin-Film Magnetoelectric Sensors Based on the Delta-E Effect. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2771-2779.	4.7	24
100	Ultra-fast degradation of methylene blue by Au/ZnO-CeO ₂ nano-hybrid catalyst. Materials Letters, 2017, 209, 486-491.	2.6	20
101	Extreme tuning of wetting on 1D nanostructures: from a superhydrophilic to a perfect hydrophobic surface. Nanoscale, 2017, 9, 14814-14819.	5.6	12
102	Light-induced Conductance Switching in Photomechanically Active Carbon Nanotube-Polymer Composites. Scientific Reports, 2017, 7, 9648.	3.3	11
103	Single-step generation of metal-plasma polymer multicore@shell nanoparticles from the gas phase. Scientific Reports, 2017, 7, 8514.	3.3	27
104	Modification of a metal nanoparticle beam by a hollow electrode discharge. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, 021301.	2.1	2
105	Molecular dynamics simulation of gold cluster growth during sputter deposition. Journal of Applied Physics, 2016, 119, .	2.5	28
106	Controlled synthesis of germanium nanoparticles by nonthermal plasmas. Applied Physics Letters, 2016, 108, .	3.3	12
107	Influence of nanoparticle formation on discharge properties in argon-acetylene capacitively coupled radio frequency plasmas. Applied Physics Letters, 2016, 108, .	3.3	20
108	Multimode delta-E effect magnetic field sensors with adapted electrodes. Applied Physics Letters, 2016, 108, .	3.3	48

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109	Non-planar nanoscale p-n heterojunctions formation in Zn/Cu ₂ O nanocrystals by mixed phases for enhanced sensors. <i>Sensors and Actuators B: Chemical</i> , 2016, 230, 832-843.	7.8	70
110	Adaptive Readout Schemes for Thin-Film Magnetoelectric Sensors Based on the delta-E Effect. <i>IEEE Sensors Journal</i> , 2016, 16, 4891-4900.	4.7	26
111	Multifunctional device based on ZnO:Fe nanostructured films with enhanced UV and ultra-fast ethanol vapour sensing. <i>Materials Science in Semiconductor Processing</i> , 2016, 49, 20-33.	4.0	73
112	Enhanced ethanol vapour sensing performances of copper oxide nanocrystals with mixed phases. <i>Sensors and Actuators B: Chemical</i> , 2016, 224, 434-448.	7.8	140
113	Photocatalytic properties of titania thin films prepared by sputtering versus evaporation and aging of induced oxygen vacancy defects. <i>Applied Catalysis B: Environmental</i> , 2016, 180, 362-371.	20.2	54
114	Characterization of a radio frequency hollow electrode discharge at low gas pressures. <i>Physics of Plasmas</i> , 2015, 22, .	1.9	11
115	Phase modulated magnetoelectric delta-E effect sensor for sub-nano tesla magnetic fields. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	74
116	Adaptive Multi-mode Combination for Magnetoelectric Sensors Based on the Delta-E Effect. <i>Procedia Engineering</i> , 2015, 120, 536-539.	1.2	5
117	Real-Time Monitoring of Morphology and Optical Properties during Sputter Deposition for Tailoring Metal-Polymer Interfaces. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 13547-13556.	8.0	113
118	X-ray spectroscopy characterization of azobenzene-functionalized triazatriangulenium adlayers on Au(111) surfaces. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 17053-17062.	2.8	26
119	Stable production of TiO ₂ nanoparticles with narrow size distribution by reactive pulsed dc magnetron sputtering. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 035501.	2.8	24
120	Simulation of nanocolumn formation in a plasma environment. <i>Journal of Applied Physics</i> , 2015, 117, 014305.	2.5	7
121	Free Volume Profiles at Polymer-Solid Interfaces Probed by Focused Slow Positron Beam. <i>Macromolecules</i> , 2015, 48, 1493-1498.	4.8	9
122	Versatile particle collection concept for correlation of particle growth and discharge parameters in dusty plasmas. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 055203.	2.8	15
123	Free Volume and Gas Permeation in Anthracene Maleimide-Based Polymers of Intrinsic Microporosity. <i>Membranes</i> , 2015, 5, 214-227.	3.0	18
124	Light-Controlled Conductance Switching in Azobenzene-Containing MWCNT-Polymer Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 11257-11262.	8.0	38
125	Quantitative Evaluation of Contamination on Dental Zirconia Ceramic by Silicone Disclosing Agents after Different Cleaning Procedures. <i>Materials</i> , 2015, 8, 2650-2657.	2.9	7
126	Light-induced conductance switching in azobenzene based near-percolated single wall carbon nanotube/polymer composites. <i>Carbon</i> , 2015, 90, 94-101.	10.3	22

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127	The effect of low-temperature structural relaxation on free volume and chemical short-range ordering in a Au ₄₉ Cu _{26.9} Si _{16.3} Ag _{5.5} Pd _{2.3} bulk metallic glass. Scripta Materialia, 2015, 103, 14-17.	5.2	40
128	Light-Triggered Control of Plasmonic Refraction and Group Delay by Photochromic Molecular Switches. ACS Photonics, 2015, 2, 1327-1332.	6.6	20
129	Correlation of gas permeation and free volume in new and used high free volume thin film composite membranes. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 213-217.	2.1	25
130	Microstructural and plasmonic modifications in Ag@TiO ₂ and Au@TiO ₂ nanocomposites through ion beam irradiation. Beilstein Journal of Nanotechnology, 2014, 5, 1419-1431.	2.8	40
131	Effective Optical Properties of Plasmonic Nanocomposites. Materials, 2014, 7, 727-741.	2.9	50
132	Interphases in Polymer Solid-Contacts and Nanocomposites Probed by Positron Annihilation Lifetime Spectroscopy. Soft Materials, 2014, 12, S135-S141.	1.7	8
133	Review of Plasmonic Nanocomposite Metamaterial Absorber. Materials, 2014, 7, 1221-1248.	2.9	149
134	High-Voltage Insulation Organic-Inorganic Nanocomposites by Plasma Polymerization. Materials, 2014, 7, 563-575.	2.9	18
135	Decoupling of Component Diffusion in a Glass-Forming ZrO_2 Nanocomposite. Physical Review Letters, 2014, 113, 165901.	7.8	46.75
136	Plasmonic tunable metamaterial absorber as ultraviolet protection film. Applied Physics Letters, 2014, 104, .	3.3	95
137	Giant magnetoelectric effect at low frequencies in polymer-based thin film composites. Applied Physics Letters, 2014, 104, .	3.3	48
138	Photo-driven Super Absorber as an Active Metamaterial with a Tunable Molecular-Plasmonic Coupling. Advanced Optical Materials, 2014, 2, 705-710.	7.3	38
139	Controlling surface segregation of reactively sputtered Ag/TiO _x nanocomposites. Acta Materialia, 2014, 74, 1-8.	7.9	14
140	Microelectromechanical magnetic field sensor based on $\hat{\rho}''$ effect. Applied Physics Letters, 2014, 105, .	3.3	59
141	Spectroelectrochemical and morphological studies of the ageing of silver nanoparticles embedded in ultra-thin perfluorinated sputter deposited films. Thin Solid Films, 2014, 571, 161-167.	1.8	0
142	Interphase of a Polymer at a Solid Interface. Macromolecules, 2014, 47, 8459-8465.	4.8	22
143	Metamaterials: Photo-driven Super Absorber as an Active Metamaterial with a Tunable Molecular-Plasmonic Coupling (Advanced Optical Materials 8/2014). Advanced Optical Materials, 2014, 2, 704-704.	7.3	2
144	The hybrid concept for realization of an ultra-thin plasmonic metamaterial antireflection coating and plasmonic rainbow. Nanoscale, 2014, 6, 6037-6045.	5.6	52

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145	Free volume in PEP-silica nanocomposites with varying molecular weight. Polymer, 2014, 55, 143-149.	3.8	9
146	Kinetic Monte Carlo Simulations of Cluster Growth and Diffusion in Metal-Polymer Nanocomposites. Springer Series on Atomic, Optical, and Plasma Physics, 2014, , 321-370.	0.2	4
147	Effect of gold alloying on stability of silver nanoparticles and control of silver ion release from vapor-deposited Ag–Au/polytetrafluoroethylene nanocomposites. Gold Bulletin, 2013, 46, 3-11.	2.4	48
148	High rate deposition system for metal-cluster/SiO ₂ x C y H z –polymer nanocomposite thin films. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	21
149	Huge increase in gas phase nanoparticle generation by pulsed direct current sputtering in a reactive gas admixture. Applied Physics Letters, 2013, 103, .	3.3	35
150	Huge increase of therapeutic window at a bioactive silver/titania nanocomposite coating surface compared to solution. Materials Science and Engineering C, 2013, 33, 2367-2375.	7.3	14
151	Plasma-polymerized HMDSO coatings to adjust the silver ion release properties of Ag/polymer nanocomposites. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	32
152	Role of oxygen admixture in stabilizing TiO ₂ nanoparticle deposition from a gas aggregation source. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	21
153	Formation of magnetic nanocolumns during vapor phase deposition of a metal-polymer nanocomposite: Experiments and kinetic Monte Carlo simulations. Journal of Applied Physics, 2013, 114, .	2.5	16
154	Vapour phase deposition of highly crystalline self-poled piezoelectric nylon-11. Journal Physics D: Applied Physics, 2012, 45, 055304.	2.8	15
155	Preparation of Silver Nanoparticles-Nafion Membrane Composite by Photoreduction Process. ECS Transactions, 2012, 41, 9-18.	0.5	3
156	Surface segregation in TiO ₂ -based nanocomposite thin films. Nanotechnology, 2012, 23, 495701.	2.6	27
157	Influence of reactive gas admixture on transition metal cluster nucleation in a gas aggregation cluster source. Journal of Applied Physics, 2012, 112, .	2.5	44
158	Tunable broadband plasmonic perfect absorber at visible frequency. Applied Physics A: Materials Science and Processing, 2012, 109, 769-773.	2.3	80
159	Aging and Free Volume in a Polymer of Intrinsic Microporosity (PIM-1). Journal of Adhesion, 2012, 88, 608-619.	3.0	79
160	A critical evaluation of the –3 approach for magnetoelectric nanocomposites with metallic nanoparticles. Journal of Applied Physics, 2012, 112, 044303.	2.5	9
161	Towards a Particle Based Simulation of Complex Plasma Driven Nanocomposite Formation. Contributions To Plasma Physics, 2012, 52, 890-898.	1.1	20
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