JiÅÃ- KratochvÃ-l

List of Publications by Year
in descending order

39 papers	595 citations	623734 14 h-index	642732 23 g-index
39 all docs	39 docs citations	39 times ranked	640 citing authors

#	Article	IF	Citations
1	Surface anchored Ag nanoparticles prepared by gas aggregation source: Antibacterial effect and the role of surface free energy. Surfaces and Interfaces, 2022, 30, 101818.	3.0	4
2	Gas aggregated Ag nanoparticles as the inorganic matrix for laser desorption/ionization mass spectrometry. Applied Surface Science, 2021, 541, 148469.	6.1	10
3	Characterization of radical-enhanced atomic layer deposition process based on microwave surface wave generated plasma. Journal of Applied Physics, 2021, 130, .	2.5	5
4	Tailoring properties of indium tin oxide thin films for their work in both electrochemical and optical label-free sensing systems. Sensors and Actuators B: Chemical, 2021, 343, 130173.	7.8	23
5	Growth of hard nanostructured ZrN surface induced by copper nanoparticles. Applied Surface Science, 2021, 562, 150230.	6.1	5
6	Nucleation and Growth of Magnetronâ€Sputtered Ag Nanoparticles as Witnessed by Timeâ€Resolved Small Angle Xâ€Ray Scattering. Particle and Particle Systems Characterization, 2020, 37, 1900436.	2.3	30
7	Gas-aggregated Ag nanoparticles for detection of small molecules using LDI MS. Analytical and Bioanalytical Chemistry, 2020, 412, 1037-1047.	3.7	12
8	Gas aggregated Ag NPs as a matrix for small molecules: a study on natural amino acids. Journal of Nanoparticle Research, 2020, 22, 1.	1.9	1
9	Effect of Ag Nanoparticle Size on Ion Formation in Nanoparticle Assisted LDI MS. Applied Nano, 2020, 1, 3-13.	2.0	8
10	Theoretical and experimental analysis of defined 2D-graded two-metal nanoparticle-build surfaces. Applied Surface Science, 2020, 511, 145530.	6.1	7
11	Physicochemical and Mechanical Performance of Freestanding Boron-Doped Diamond Nanosheets Coated with C:H:N:O Plasma Polymer. Materials, 2020, 13, 1861.	2.9	2
12	Nitrogen enriched C:H:N:O thin films for improved antibiotics doping. Applied Surface Science, 2019, 494, 301-308.	6.1	5
13	Tailored wettability of plasma polymers made of Câ€“F, Câ€“H, and Nâ€“H. Plasma Processes and Polymers, 2019, 16, 1900076.	3.0	8
14	Modified high frequency probe approach for diagnostics of highly reactive plasma. Plasma Sources Science and Technology, 2019, 28, 115009.	3.1	9
15	Silver nanoparticles for solvent-free detection of small molecules and mass-to-charge calibration of laser desorption/ionization mass spectrometry. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, 012906.	1.2	9
16	Wetting and drying on gradient-nanostructured C:F surfaces synthesized using a gas aggregation source of nanoparticles combined with magnetron sputtering of polytetrafluoroethylene. Vacuum, 2019, 166, 50-56.	3.5	15
17	Superwettable antibacterial textiles for versatile oil/water separation. Plasma Processes and Polymers, 2019, 16, 1900003.	3.0	13
18	Reactive sputtering deposition of plasma polymerized nylon films with embedded NHx groups. Surface and Coatings Technology, 2019, 363, 120-127.	4.8	2

#	ARTICLE	IF	CITATIONS
19	Towards high quality ITO coatings: The impact of nitrogen admixture in HiPIMS discharges. Surface and Coatings Technology, 2018, 335, 126-133.	4.8	18
20	Plasma polymerized C:H:N:O thin films for controlled release of antibiotic substances. Plasma Processes and Polymers, 2018, 15, 1700160.	3.0	14
21	Antibacterial effect of Cu/C:F nanocomposites deposited on PEEK substrates. Materials Letters, 2018, 230, 96-99.	2.6	26
22	State-of-the-Art, and Perspectives of, Silver/Plasma Polymer Antibacterial Nanocomposites. Antibiotics, 2018, 7, 78.	3.7	28
23	A Model of Microstructure Evolution in Metals Exposed to Large Strains. Acta Physica Polonica A, 2018, 134, 753-756.	0.5	0
24	Noble metal nanostructures for double plasmon resonance with tunable properties. Optical Materials, 2017, 64, 276-281.	3.6	22
25	Ag/C:F Antibacterial and hydrophobic nanocomposite coatings. Functional Materials Letters, 2017, 10, 1750029.	1.2	21
26	Enhanced oxidation of TiO2 films prepared by high power impulse magnetron sputtering running in metallic mode. Journal of Applied Physics, 2017, 121, .	2.5	11
27	Superhydrophobic fluorine-free hierarchical coatings produced by vacuum based method. Materials Letters, 2016, 167, 30-33.	2.6	11
28	Comparison of magnetron sputtering and gas aggregation nanoparticle source used for fabrication of silver nanoparticle films. Surface and Coatings Technology, 2015, 275, 296-302.	4.8	32
29	Large-scale Ag nanoislands stabilized by a magnetron-sputtered polytetrafluoroethylene film as substrates for highly sensitive and reproducible surface-enhanced Raman scattering (SERS). Journal of Materials Chemistry C, 2015, 3, 11478-11485.	5.5	37
30	A crystal plasticity model of a formation of a deformation band structure. Philosophical Magazine, 2015, 95, 3621-3639.	1.6	9
31	Fabrication of Cu nanoclusters and their use for production of Cu/plasma polymer nanocomposite thin films. Thin Solid Films, 2014, 550, 46-52.	1.8	41
32	From super-hydrophilic to super-hydrophobic surfaces using plasma polymerization combined with gas aggregation source of nanoparticles. Vacuum, 2014, 110, 58-61.	3.5	39
33	Control of Wettability of Plasma Polymers by Application of Ti Nanoâ€Clusters. Plasma Processes and Polymers, 2012, 9, 180-187.	3.0	33
34	Crystal Plasticity Treated as a Quasi-Static Material Flow through Adjustable Crystal Lattice. Acta Physica Polonica A, 2012, 122, 482-484.	0.5	1
35	Model of early stage of dislocation structure formation in cyclically deformed metal crystals. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1991, 64, 497-511.	0.6	45
36	Instability origin of dislocation substructure. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1990, 61, 281-290.	0.6	34

#	Article	IF	Citations
37	Low cycle fatigue cracking of Al 20wt% Zn multicrystals. European Physical Journal D, 1987, 37, 619-624.	0.4	1
38	Influence of solidification of binary eutectic lamellar systems on surface tension driven convection in zero gravity conditions. Crystal Research and Technology, 1984, 19, 1507-1513.	1.3	1
39	Ag nanoparticles immobilized on C:H:N:O plasma polymer film by elevated temperature for LSPR sensing. Plasma Processes and Polymers, 0, , e2100144.	3.0	3