

Slawek Kulesza

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77
papers

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h-index

32
g-index

85
ext. papers

1,334
ext. citations

3.2
avg, IF

4.58
L-index

#	Paper	IF	Citations
77	A comparative study of correlation methods for determination of fractal parameters in surface characterization. <i>Applied Surface Science</i> , 2014 , 293, 196-201	6.7	91
76	Microstructure and Tribological Properties of FeNPs@a-C:H Films by Micromorphology Analysis and Fractal Geometry. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 8212-8218	3.9	68
75	Microstructure, morphology and electrochemical properties of Co nanoflake water oxidation electrocatalyst at micro- and nanoscale. <i>RSC Advances</i> , 2017 , 7, 12923-12930	3.7	60
74	Fractal features of carbon-nickel composite thin films. <i>Microscopy Research and Technique</i> , 2016 , 79, 1208-1213	3.6	60
73	Gold nanoparticles embedded in carbon film: Micromorphology analysis. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 35, 158-166	6.3	52
72	Microstructure and micromorphology of ZnO thin films: Case study on Al doping and annealing effects. <i>Superlattices and Microstructures</i> , 2016 , 93, 109-121	2.8	52
71	Fractal features and surface micromorphology of diamond nanocrystals. <i>Journal of Microscopy</i> , 2016 , 264, 143-152	1.9	48
70	Evolution of rough-surface geometry and crystalline structures of aligned TiO nanotubes for photoelectrochemical water splitting. <i>Scientific Reports</i> , 2018 , 8, 10870	4.9	45
69	Surface micromorphology and fractal geometry of Co/CP/X (X = Cu, Ti, SM and Ni) nanoflake electrocatalysts. <i>RSC Advances</i> , 2016 , 6, 27228-27234	3.7	43
68	Microstructure and micromorphology of Cu/Co nanoparticles: Surface texture analysis. <i>Electronic Materials Letters</i> , 2016 , 12, 580-588	2.9	40
67	Effect of electric field direction and substrate roughness on three-dimensional self-assembly growth of copper oxide nanowires. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 9272-9277	2.17	40
66	Influence of the electrolyte's pH on the properties of electrochemically deposited hydroxyapatite coating on additively manufactured Ti64 alloy. <i>Scientific Reports</i> , 2017 , 7, 16819	4.9	36
65	Mechanical properties and fractal analysis of the surface texture of sputtered hydroxyapatite coatings. <i>Applied Surface Science</i> , 2016 , 379, 338-346	6.7	35
64	Micromorphology analysis of specific 3-D surface texture of silver chiral nanoflower sculptured structures. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 43, 164-169	6.3	29
63	Sputtered Si and Mg doped hydroxyapatite for biomedical applications. <i>Biomedical Materials (Bristol)</i> , 2018 , 13, 025011	3.5	28
62	Osseointegration of sputtered SiC-added hydroxyapatite for orthopaedic applications. <i>Ceramics International</i> , 2016 , 42, 10085-10093	5.1	27
61	Surface topography, microstructure and magnetic domains in Al for Sn substituted metamagnetic NiMnSn Heusler alloy ribbons. <i>Intermetallics</i> , 2014 , 55, 1-8	3.5	25

60	Fractal Analysis of AFM Data Characterizing Strongly Isotropic and Anisotropic Surface Topography. <i>Solid State Phenomena</i> , 2013 , 203-204, 86-89	0.4	25
59	High-temperature electrical transport properties of buckypapers composed of doped single-walled carbon nanotubes. <i>Carbon</i> , 2006 , 44, 2178-2183	10.4	22
58	The effect of different laser irradiation on rugometric and microtopographic features in zirconia ceramics: Study of surface statistical metrics. <i>Journal of Alloys and Compounds</i> , 2018 , 765, 180-185	5.7	22
57	New Insights into SnO ₂ /Al ₂ O ₃ , Ni/Al ₂ O ₃ , and SnO ₂ /Ni/Al ₂ O ₃ Composite Films for CO Adsorption: Building a Bridge between Microstructures and Adsorption Properties. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 3692-3701	3.8	19
56	Microstructure, fractal geometry and dye-sensitized solar cells performance of CdS/TiO ₂ nanostructures. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 830-831, 80-87	4.1	17
55	Minkowski functional characterization and fractal analysis of surfaces of titanium nitride films. <i>Materials Research Express</i> , 2019 , 6, 086463	1.7	16
54	Topographic characterization of thin film field-effect transistors of 2,6-diphenyl anthracene (DPA) by fractal and AFM analysis. <i>Materials Science in Semiconductor Processing</i> , 2018 , 79, 144-152	4.3	15
53	How morphological surface parameters are correlated with electrocatalytic performance of cobalt-based nanostructures. <i>Journal of Industrial and Engineering Chemistry</i> , 2018 , 57, 97-103	6.3	15
52	Effect of annealing on the micromorphology and corrosion properties of Ti/SS thin films. <i>Superlattices and Microstructures</i> , 2020 , 146, 106681	2.8	15
51	Microstructure of nickel nanoparticles embedded in carbon films: case study on annealing effect by micromorphology analysis. <i>Surface and Interface Analysis</i> , 2017 , 49, 153-160	1.5	14
50	Structural investigations of protective polycrystalline diamond coatings on titanium substrates. <i>Surface and Coatings Technology</i> , 2006 , 201, 203-207	4.4	14
49	The relation between structural, rugometric and fractal characteristics of hard dental tissues at micro and nano levels. <i>Microscopy Research and Technique</i> , 2019 , 82, 421-428	2.8	14
48	Verification of the authenticity of drugs by means of NMR relaxometry-Viagra as an example. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017 , 135, 199-205	3.5	11
47	Spontaneous decrease of high surface electrical conductivity in diamond exposed to atmospheric air. <i>Chemical Physics Letters</i> , 2004 , 391, 56-59	2.5	11
46	Influence of annealing process on surface micromorphology of carbon/nickel composite thin films. <i>Optical and Quantum Electronics</i> , 2017 , 49, 1	2.4	10
45	Influence of the artificial saliva storage on 3-D surface texture characteristics of contemporary dental nanocomposites. <i>Journal of Microscopy</i> , 2016 , 264, 198-206	1.9	10
44	Influence of Ti, Zr or Nb carbide adhesion layers on the adhesion, corrosion resistance and cell proliferation of titania doped hydroxyapatite to the Ti6Al4V alloy substrate, utilizable for orthopaedic implants. <i>Ceramics International</i> , 2019 , 45, 1710-1723	5.1	10
43	Modeling the Real Estate Prices in Olsztyn under Instability Conditions. <i>Folia Oeconomica Stetinensia</i> , 2012 , 11, 61-72	0.2	8

42	Effects of suspended micro- and nanoscale particles on zooplankton functional diversity of drainage system reservoirs at an open-pit mine. <i>Scientific Reports</i> , 2019 , 9, 16113	4.9	8
41	Micromorphology analysis of sputtered indium tin oxide fabricated with variable ambient combinations. <i>Materials Letters</i> , 2018 , 220, 169-171	3.3	7
40	Pulsed laser deposition of Nd:YAG on Si with substrate bias voltage. <i>Applied Surface Science</i> , 2002 , 193, 261-267	6.7	7
39	Surface Morphology Analysis of Composite Thin Films based on Titanium-Dioxide Nanoparticles. <i>Acta Physica Polonica A</i> , 2017 , 131, 1529-1533	0.6	7
38	Optical properties and morphology analysis of hexagonal WO ₃ thin films obtained by electron beam evaporation. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 798-805	2.1	7
37	Application of the Autocorrelation Function and Fractal Geometry Methods for Analysis of MFM Images. <i>Archives of Metallurgy and Materials</i> , 2014 , 59, 451-457		6
36	Application of Atomic Force Microscopy for Studies of Fractal and Functional Properties of Biomaterials. <i>Acta Physica Polonica A</i> , 2016 , 130, 1013-1015	0.6	6
35	Fractal Features and Surface Micromorphology of Unworn Surfaces of Rigid Gas Permeable Contact Lenses. <i>Current Eye Research</i> , 2017 , 42, 1118-1123	2.9	5
34	Local Real Estate Markets in Poland as a Network of Damped Harmonic Oscillators. <i>Acta Physica Polonica A</i> , 2015 , 127, A-99-A-102	0.6	5
33	The Dynamics Of Time Series Of Real Estate Prices. <i>Real Estate Management and Valuation</i> , 2015 , 23, 35-43	0.8	5
32	Physical Properties, Spectroscopic, Microscopic, X-ray, and Chemometric Analysis of Starch Films Enriched with Selected Functional Additives. <i>Materials</i> , 2021 , 14,	3.5	5
31	Spectroscopic and theoretical studies of fluorescence effects induced by the ESIPT process in a new derivative 2-Hydroxy-N-(2-phenylethyl)benzamide - Study on the effects of pH and medium polarity changes. <i>PLoS ONE</i> , 2020 , 15, e0229149	3.7	4
30	Fractal Nature of Nanocomposite Thin Films with Co NPs in a-C:H Matrix. <i>Silicon</i> , 2018 , 10, 675-680	2.4	4
29	Similarities in Time-Series of Housing Prices on Local Markets in Poland. <i>Real Estate Management and Valuation</i> , 2014 , 22, 45-53	0.8	4
28	Study of the moderate-temperature growth process of optical quality synthetic diamond films on quartz substrates. <i>Thin Solid Films</i> , 2008 , 516, 4915-4920	2.2	4
27	Multiscale surface texture and fractal analysis of straight bevel gears finished by PECH and PECF process. <i>Materials and Manufacturing Processes</i> , 2019 , 34, 1882-1887	4.1	3
26	Surface investigations of ZnBeMnSe mixed crystals by means of the piezoelectric spectroscopy and the AFM technique. <i>Applied Surface Science</i> , 2014 , 290, 27-34	6.7	3
25	Diamond-like carbon layers grown by electrochemical method—structural study. <i>Energy Conversion and Management</i> , 2008 , 49, 2487-2489	10.6	3

24	Multiscale Surface Microtexture Analysis of CuNPs@a-C:H Thin Films. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 22520-22532	3.9	3
23	Fractal geometry of internal thread surfaces manufactured by cutting tap and rolling tap. <i>Manufacturing Letters</i> , 2020 , 23, 34-38	4.5	3
22	Real Estate Market under Catastrophic Change. <i>Acta Physica Polonica A</i> , 2013 , 123, 497-501	0.6	2
21	X-ray study of Nd:YAG on (111)-oriented Si obtained by pulsed laser deposition 2001 , 4412, 396		2
20	Surface micromorphology characterization of PDI8-CN2 thin films on H-Si by AFM analysis. <i>Materials Science-Poland</i> , 2020 , 38, 334-340	0.6	2
19	Structural Studies of Welds in Wear-Resistant Steels. <i>Acta Physica Polonica A</i> , 2016 , 130, 963-965	0.6	2
18	The Influence Of Financing On The Dynamics Of Housing Prices. <i>Folia Oeconomica Stetinensia</i> , 2014 , 14, 101-113	0.2	1
17	Infrared transmittance model for pyrometric monitoring of surface quality of thin diamond films. <i>Surface and Coatings Technology</i> , 2012 , 206, 3554-3558	4.4	1
16	A Magnetic Force Microscopy Study of Magnetic Domain Structure in Maraging Steel. <i>Solid State Phenomena</i> , 2013 , 203-204, 315-318	0.4	1
15	Logical Homologies between Housing Prices Dynamics and Damped Harmonic Oscillations. <i>Acta Physica Polonica A</i> , 2020 , 138, 89-95	0.6	1
14	The Mechanism of Transformation of Global Business Cycles into Dynamics of Regional Real Estate Markets. <i>Acta Physica Polonica A</i> , 2018 , 133, 1351-1361	0.6	1
13	Surface Morphology Analysis of Martensitic Stainless Steel after Different Treatments. <i>Acta Physica Polonica A</i> , 2019 , 135, 157-161	0.6	1
12	Surface morphology analysis of oxide layers formed on 10CrMo9-10 steel used in the power industry. <i>Materials Research Express</i> , 2020 , 7, 026544	1.7	1
11	Experimental investigations of threads surface integrity manufactured by cutting insert and with internal thread rolling head. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2020 , 31, 334-341	3.4	1
10	Assessment of Masticatory Muscle Function in Patients with Bilateral Complete Cleft Lip and Palate and Posterior Crossbite by means of Electromyography. <i>Journal of Healthcare Engineering</i> , 2020 , 2020, 8828006	3.7	0
9	Mapping of Nanomechanical Properties of Enamel Surfaces Due to Orthodontic Treatment by AFM Method. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3918	2.6	0
8	Evolution of the Geometric Structure of X39Cr13 Steel upon Thermochemical Treatment Specific to Medical-Grade Steels. <i>Lubricants</i> , 2022 , 10, 114	3.1	0
7	Effect of the surface roughness on the measured thermal diffusivity of the ZnBeMnSe single-crystalline solids. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	

- 6 Comment on: The effect of pressure on morphological features and quality of synthesized graphene [Res Chem Intermed journal DOI 10.1007/s11164-016-2594-8]. *Research on Chemical Intermediates*, **2017**, 43, 2237-2240 2.8
- 5 irradiation effects in graphite and applications to material engineering. *Energy Conversion and Management*, **2008**, 49, 2494-2498 10.6
- 4 Growth of Nd:YAG films by the pulsed laser deposition method. *Surface and Coatings Technology*, **2004**, 176, 385-390 4.4
- 3 Towards Equivalence of Reynolds Number as Analytical Tool for Analysis of Housing Price Dynamics. *Acta Physica Polonica A*, **2020**, 138, 83-88 0.6
- 2 The strategies for the modelling of the passive mass transport through porous membranes: Applicability to transdermal delivery systems. *International Journal of Pharmaceutics*, **2020**, 591, 120017 6.5
- 1 Surface texture and fractal analysis of cemented carbide cutting tools. *Microscopy Research and Technique*, **2021**, 2.8