

Slawek Kulesza

List of Publications by Year in descending order

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85
papers

1,586
citations

279487

23
h-index

329751

37
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86
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86
docs citations

86
times ranked

1085
citing authors

#	ARTICLE	IF	CITATIONS
1	Minkowski functional characterization and fractal analysis of surfaces of titanium nitride films. <i>Materials Research Express</i> , 2019, 6, 086463.	0.8	126
2	A comparative study of correlation methods for determination of fractal parameters in surface characterization. <i>Applied Surface Science</i> , 2014, 293, 196-201.	3.1	120
3	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.	1.8	76
4	Fractal features of carbon-nickel composite thin films. <i>Microscopy Research and Technique</i> , 2016, 79, 1208-1213.	1.2	70
5	Microstructure, morphology and electrochemical properties of Co nanoflake water oxidation electrocatalyst at micro- and nanoscale. <i>RSC Advances</i> , 2017, 7, 12923-12930.	1.7	67
6	Evolution of rough-surface geometry and crystalline structures of aligned TiO ₂ nanotubes for photoelectrochemical water splitting. <i>Scientific Reports</i> , 2018, 8, 10870.	1.6	59
7	Microstructure and micromorphology of ZnO thin films: Case study on Al doping and annealing effects. <i>Superlattices and Microstructures</i> , 2016, 93, 109-121.	1.4	58
8	Gold nanoparticles embedded in carbon film: Micromorphology analysis. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 35, 158-166.	2.9	57
9	Fractal features and surface micromorphology of diamond nanocrystals. <i>Journal of Microscopy</i> , 2016, 264, 143-152.	0.8	55
10	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.	1.6	49
11	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.	1.7	48
12	Mechanical properties and fractal analysis of the surface texture of sputtered hydroxyapatite coatings. <i>Applied Surface Science</i> , 2016, 379, 338-346.	3.1	45
13	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.	1.1	42
14	Microstructure and micromorphology of Cu/Co nanoparticles: Surface texture analysis. <i>Electronic Materials Letters</i> , 2016, 12, 580-588.	1.0	42
15	Sputtered Si and Mg doped hydroxyapatite for biomedical applications. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 025011.	1.7	38
16	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.	2.9	35
17	Osseointegration of sputtered SiC-added hydroxyapatite for orthopaedic applications. <i>Ceramics International</i> , 2016, 42, 10085-10093.	2.3	35
18	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.	1.9	32

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19	Surface topography, microstructure and magnetic domains in Al for Sn substituted metamagnetic Niâ€“Mnâ€“Sn Heusler alloy ribbons. <i>Intermetallics</i> , 2014, 55, 1-8.	1.8	31
20	Effect of annealing on the micromorphology and corrosion properties of Ti/SS thin films. <i>Superlattices and Microstructures</i> , 2020, 146, 106681.	1.4	29
21	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.	1.5	28
22	Fractal Analysis of AFM Data Characterizing Strongly Isotropic and Anisotropic Surface Topography. <i>Solid State Phenomena</i> , 0, 203-204, 86-89.	0.3	26
23	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.	2.8	25
24	High-temperature electrical transport properties of buckypapers composed of doped single-walled carbon nanotubes. <i>Carbon</i> , 2006, 44, 2178-2183.	5.4	23
25	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.	1.9	19
26	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.	2.9	18
27	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.	1.2	18
28	Verification of the authenticity of drugs by means of NMR relaxometryâ€“Viagra Â® as an example. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 135, 199-205.	1.4	17
29	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.	2.3	17
30	Structural investigations of protective polycrystalline diamond coatings on titanium substrates. <i>Surface and Coatings Technology</i> , 2006, 201, 203-207.	2.2	16
31	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.	0.8	15
32	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.	1.6	14
33	Physical Properties, Spectroscopic, Microscopic, X-ray, and Chemometric Analysis of Starch Films Enriched with Selected Functional Additives. <i>Materials</i> , 2021, 14, 2673.	1.3	14
34	Modeling the Real Estate Prices in Olsztyn under Instability Conditions. <i>Folia Oeconomica Stetinensia</i> , 2012, 11, 61-72.	0.3	13
35	Influence of the artificial saliva storage on 3â€“D surface texture characteristics of contemporary dental nanocomposites. <i>Journal of Microscopy</i> , 2016, 264, 198-206.	0.8	13
36	Influence of annealing process on surface micromorphology of carbonâ€“nickel composite thin films. <i>Optical and Quantum Electronics</i> , 2017, 49, 1.	1.5	13

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37	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.	1.1	13
38	Spontaneous decrease of high surface electrical conductivity in diamond exposed to atmospheric air. <i>Chemical Physics Letters</i> , 2004, 391, 56-59.	1.2	12
39	Similarities in Time-Series of Housing Prices on Local Markets in Poland. <i>Real Estate Management and Valuation</i> , 2014, 22, 45-53.	0.2	10
40	Pulsed laser deposition of Nd:YAG on Si with substrate bias voltage. <i>Applied Surface Science</i> , 2002, 193, 261-267.	3.1	8
41	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.	0.6	8
42	The Dynamics Of Time Series Of Real Estate Prices. <i>Real Estate Management and Valuation</i> , 2015, 23, 35-43.	0.2	8
43	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, 1-7.	1.1	8
44	Application of Atomic Force Microscopy for Studies of Fractal and Functional Properties of Biomaterials. <i>Acta Physica Polonica A</i> , 2016, 130, 1013-1015.	0.2	8
45	Micromorphology analysis of sputtered indium tin oxide fabricated with variable ambient combinations. <i>Materials Letters</i> , 2018, 220, 169-171.	1.3	7
46	Mapping of Nanomechanical Properties of Enamel Surfaces Due to Orthodontic Treatment by AFM Method. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3918.	1.3	7
47	Multiscale Surface Microtexture Analysis of CuNPs@a-C:H Thin Films. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 22520-22532.	1.8	7
48	Surface Morphology Analysis of Composite Thin Films based on Titanium-Dioxide Nanoparticles. <i>Acta Physica Polonica A</i> , 2017, 131, 1529-1533.	0.2	7
49	Fractal Features and Surface Micromorphology of Unworn Surfaces of Rigid Gas Permeable Contact Lenses. <i>Current Eye Research</i> , 2017, 42, 1118-1123.	0.7	6
50	Fractal geometry of internal thread surfaces manufactured by cutting tap and rolling tap. <i>Manufacturing Letters</i> , 2020, 23, 34-38.	1.1	6
51	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.	0.8	5
52	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.	0.2	5
53	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.	2.7	5
54	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.	1.1	5

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55	Real Estate Market under Catastrophic Change. <i>Acta Physica Polonica A</i> , 2013, 123, 497-501.	0.2	4
56	Fractal Nature of Nanocomposite Thin Films with Co NPs in a-C:H Matrix. <i>Silicon</i> , 2018, 10, 675-680.	1.8	4
57	Surface Morphology Analysis of Martensitic Stainless Steel after Different Treatments. <i>Acta Physica Polonica A</i> , 2019, 135, 157-161.	0.2	4
58	X-ray study of Nd:YAG on (111)-oriented Si obtained by pulsed laser deposition. , 2001, 4412, 396.		3
59	Diamond-like carbon layers grown by electrochemical method – structural study. <i>Energy Conversion and Management</i> , 2008, 49, 2487-2489.	4.4	3
60	Infrared transmittance model for pyrometric monitoring of surface quality of thin diamond films. <i>Surface and Coatings Technology</i> , 2012, 206, 3554-3558.	2.2	3
61	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.	3.1	3
62	Surface morphology analysis of oxide layers formed on 10CrMo9-10 steel used in the power industry. <i>Materials Research Express</i> , 2020, 7, 026544.	0.8	3
63	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.	2.3	3
64	Surface micromorphology characterization of PDI8-CN ₂ thin films on H-Si by AFM analysis. <i>Materials Science-Poland</i> , 2020, 38, 334-340.	0.4	3
65	Structural Studies of Welds in Wear-Resistant Steels. <i>Acta Physica Polonica A</i> , 2016, 130, 963-965.	0.2	3
66	A Magnetic Force Microscopy Study of Magnetic Domain Structure in Maraging Steel. <i>Solid State Phenomena</i> , 0, 203-204, 315-318.	0.3	2
67	Logical Homologies between Housing Prices Dynamics and Damped Harmonic Oscillations. <i>Acta Physica Polonica A</i> , 2020, 138, 89-95.	0.2	2
68	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.	0.2	2
69	The Influence Of Financing On The Dynamics Of Housing Prices. <i>Folia Oeconomica Stetinensia</i> , 2014, 14, 101-113.	0.3	1
70	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.	1.1	1
71	The strategies for the modelling of the passive mass transport through porous membranes: Applicability to transdermal delivery systems. <i>International Journal of Pharmaceutics</i> , 2020, 591, 120017.	2.6	1
72	Atomic force microscopy with fractal studies of temperature induced changes in the surface topography of polymeric materials. <i>Polimery</i> , 2020, 65, 25-32.	0.4	1

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73	Evolution of the Geometric Structure of X39Cr13 Steel upon Thermochemical Treatment Specific to Medical-Grade Steels. <i>Lubricants</i> , 2022, 10, 114.	1.2	1
74	<title>Electrical conductivity, ESR, and Raman scattering spectroscopy of undoped and B-doped diamond films grown by CVD method</title>. , 1999, , .		0
75	Changes in electrical properties of thin diamond films under heat treatment. , 0, , .		0
76	Growth of Nd:YAG films by the pulsed laser deposition method. <i>Surface and Coatings Technology</i> , 2004, 176, 385-390.	2.2	0
77	Spontaneous decrease of high surface electrical conductivity in diamond exposed to atmospheric air. <i>Chemical Physics Letters</i> , 2004, 391, 56-56.	1.2	0
78	irradiation effects in graphite and applications to material engineering. <i>Energy Conversion and Management</i> , 2008, 49, 2494-2498.	4.4	0
79	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]. <i>Research on Chemical Intermediates</i> , 2017, 43, 2237-2240.	1.3	0
80	Surface texture and fractal analysis of cemented carbide cutting tools. <i>Microscopy Research and Technique</i> , 2021, , .	1.2	0
81	Morphologic characterization and fractal analysis of lapped and polished surfaces of quartz single crystals. <i>Microscopy Research and Technique</i> , 2021, , .	1.2	0
82	Boron-Doped Diamond/GaN Heterojunction "The Influence of the Low-Temperature Deposition. <i>Materials</i> , 2021, 14, 6328.	1.3	0
83	Descriptive analysis of nonstationarity of the time series on real estate market. <i>Journal of International Studies</i> , 2015, 8, 34-42.	0.7	0
84	SURFACE MORPHOLOGY ANALYSIS OF X39Cr13 steel using for biomedical applications. , 2019, , .		0
85	Towards Equivalence of Reynolds Number as Analytical Tool for Analysis of Housing Price Dynamics. <i>Acta Physica Polonica A</i> , 2020, 138, 83-88.	0.2	0