

Zdenek Remes

List of Publications by Year in descending order

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135
papers

2,548
citations

186265

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136
all docs

136
docs citations

136
times ranked

2944
citing authors

#	ARTICLE	IF	CITATIONS
1	Optical absorption and light scattering in microcrystalline silicon thin films and solar cells. Journal of Applied Physics, 2000, 88, 148-160.	2.5	236
2	Organic-Inorganic Halide Perovskites: Perspectives for Silicon-Based Tandem Solar Cells. IEEE Journal of Photovoltaics, 2014, 4, 1545-1551.	2.5	123
3	Nanostructured three-dimensional thin film silicon solar cells with very high efficiency potential. Applied Physics Letters, 2011, 98, .	3.3	92
4	LYRA, a solar UV radiometer on Proba2. Advances in Space Research, 2006, 37, 303-312.	2.6	80
5	Formation of Continuous Nanocrystalline Diamond Layers on Glass and Silicon at Low Temperatures. Chemical Vapor Deposition, 2008, 14, 181-186.	1.3	77
6	Optical properties of SnO ₂ :F films deposited by atmospheric pressure CVD. Thin Solid Films, 2009, 517, 6287-6289.	1.8	74
7	Optical properties of microcrystalline materials. Journal of Non-Crystalline Solids, 1998, 227-230, 967-972.	3.1	72
8	Silicon network relaxation in amorphous hydrogenated silicon. Physical Review B, 1997, 56, R12710-R12713.	3.2	68
9	Optical determination of the mass density of amorphous and microcrystalline silicon layers with different hydrogen contents. Journal of Non-Crystalline Solids, 1998, 227-230, 876-879.	3.1	65
10	Atmospheric pressure chemical vapour deposition of F doped SnO ₂ for optimum performance solar cells. Thin Solid Films, 2009, 517, 3061-3065.	1.8	58
11	Enhanced optical absorption in microcrystalline silicon. Journal of Non-Crystalline Solids, 1996, 198-200, 903-906.	3.1	52
12	Investigation of nanocrystalline diamond films grown on silicon and glass at substrate temperature below 400°C. Diamond and Related Materials, 2007, 16, 744-747.	3.9	51
13	Refractive indices of layers and optical simulations of Cu(In,Ga)Se ₂ solar cells. Science and Technology of Advanced Materials, 2018, 19, 396-410.	6.1	46
14	Growth of nanocrystalline diamond films deposited by microwave plasma CVD system at low substrate temperatures. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 3011-3015.	1.8	45
15	Amorphous silicon solar cells made with SnO ₂ :F TCO films deposited by atmospheric pressure CVD. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 159-160, 6-9.	3.5	42
16	On the improvement of PEC activity of hematite thin films deposited by high-power pulsed magnetron sputtering method. Applied Catalysis B: Environmental, 2015, 165, 344-350.	20.2	41
17	Study of ZnO nanorods grown under UV irradiation. Applied Surface Science, 2019, 472, 105-111.	6.1	41
18	The optical absorption and photoconductivity spectra of hexagonal boron nitride single crystals. Physica Status Solidi A, 2005, 202, 2229-2233.	1.7	40

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19	Mechanism of photoconductivity in intrinsic epitaxial CVD diamond studied by photocurrent spectroscopy and photocurrent decay measurements. <i>Diamond and Related Materials</i> , 2005, 14, 556-560.	3.9	35
20	High-power pulsed plasma deposition of hematite photoanode for PEC water splitting. <i>Catalysis Today</i> , 2014, 230, 8-14.	4.4	32
21	Single-Source, Solvent-Free, Room Temperature Deposition of Black I^3CsSnI_3 Films. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000162.	3.7	32
22	Nanocrystalline diamond surface functionalization in radio frequency plasma. <i>Diamond and Related Materials</i> , 2006, 15, 745-748.	3.9	31
23	Performance of diamond detectors for VUV applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 568, 398-405.	1.6	31
24	Chemical modifications and stability of diamond nanoparticles resolved by infrared spectroscopy and Kelvin force microscopy. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	1.9	31
25	Deposition of hematite Fe_2O_3 thin film by DC pulsed magnetron and DC pulsed hollow cathode sputtering system. <i>Thin Solid Films</i> , 2013, 549, 184-191.	1.8	31
26	Enhancing the optoelectronic properties of amorphous zinc tin oxide by subgap defect passivation: A theoretical and experimental demonstration. <i>Physical Review B</i> , 2017, 95, .	3.2	31
27	Time of flight study of high performance CVD diamond detector devices. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 3023-3029.	1.8	29
28	Properties of boron-doped epitaxial diamond layers grown on (110) oriented single crystal substrates. <i>Diamond and Related Materials</i> , 2015, 53, 29-34.	3.9	29
29	Synthesis of zinc oxide nanostructures and comparison of their crystal quality. <i>Applied Surface Science</i> , 2018, 461, 190-195.	6.1	29
30	Double hollow cathode plasma jet-low temperature method for the $\text{TiO}_2\text{-N}$ photoresponding films. <i>Electrochimica Acta</i> , 2010, 55, 1548-1556.	5.2	26
31	Precursor gas composition optimisation for large area boron doped nano-crystalline diamond growth by MW-LA-PECVD. <i>Carbon</i> , 2018, 128, 164-171.	10.3	26
32	Spectral response of amorphous/nano-crystalline silicon thin films. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 2286-2290.	3.1	24
33	Preparation and optical properties of nanocrystalline diamond coatings for infrared planar waveguides. <i>Thin Solid Films</i> , 2016, 618, 130-133.	1.8	23
34	Design and investigation of properties of nanocrystalline diamond optical planar waveguides. <i>Optics Express</i> , 2013, 21, 8417.	3.4	22
35	Study of the surface properties of ZnO nanocolumns used for thin-film solar cells. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 446-451.	2.8	22
36	The RF plasma surface chemical modification of nanodiamond films grown on glass and silicon at low temperature. <i>Diamond and Related Materials</i> , 2007, 16, 671-674.	3.9	21

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37	Structural, optical and mechanical properties of thin diamond and silicon carbide layers grown by low pressure microwave linear antenna plasma enhanced chemical vapour deposition. <i>Diamond and Related Materials</i> , 2016, 69, 13-18.	3.9	20
38	Growth Inhibition of Gram-Positive and Gram-Negative Bacteria by Zinc Oxide Hedgehog Particles. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 3541-3554.	6.7	20
39	Comparison of photocurrent spectra measured by FTPS and CPM for amorphous silicon layers and solar cells. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 2167-2170.	3.1	18
40	Optical study of defects in nano-diamond films grown in linear antenna microwave plasma CVD from $H_2/CH_4/CO_2$ gas mixture. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2635-2639.	1.5	18
41	Arrays of ZnO nanocolumns for 3-dimensional very thin amorphous and microcrystalline silicon solar cells. <i>Thin Solid Films</i> , 2013, 543, 110-113.	1.8	18
42	Erbium ion implantation into diamond – measurement and modelling of the crystal structure. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6233-6245.	2.8	18
43	Photocurrent Spectroscopy of Perovskite Layers and Solar Cells: A Sensitive Probe of Material Degradation. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 838-843.	4.6	18
44	Optically transparent composite diamond/Ti electrodes. <i>Carbon</i> , 2017, 119, 179-189.	10.3	18
45	High optical quality nanocrystalline diamond with reduced non-diamond contamination. <i>Diamond and Related Materials</i> , 2010, 19, 453-456.	3.9	17
46	ZnO hedgehog-like structures for control cell cultivation. <i>Applied Surface Science</i> , 2012, 258, 3485-3489.	6.1	17
47	Diamond-coated ATR prism for infrared absorption spectroscopy of surface-modified diamond nanoparticles. <i>Applied Surface Science</i> , 2013, 270, 411-417.	6.1	17
48	Exciton diffusion length in some thermocleavable polythiophenes by the surface photovoltage method. <i>Synthetic Metals</i> , 2012, 161, 2727-2731.	3.9	15
49	Effect of plasma composition on nanocrystalline diamond layers deposited by a microwave linear antenna plasma-enhanced chemical vapour deposition system. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2418-2423.	1.8	15
50	The infrared optical absorption spectra of the functionalized nanocrystalline diamond surface. <i>Diamond and Related Materials</i> , 2009, 18, 772-775.	3.9	14
51	The Optical Spectra of a-Si:H and a-SiC:H Thin Films Measured by the Absolute Photothermal Deflection Spectroscopy (PDS). <i>Solid State Phenomena</i> , 0, 213, 19-28.	0.3	14
52	Temperature dependence of intrinsic infrared absorption in natural and chemical-vapor deposited diamond. <i>Journal of Applied Physics</i> , 2002, 92, 756-763.	2.5	13
53	Amplitude modulated step scan Fourier transform photocurrent spectroscopy of partly compensated B-doped CVD diamond thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007, 204, 2950-2956.	1.8	13
54	Control of tin oxide film morphology by addition of hydrocarbons to the chemical vapour deposition process. <i>Thin Solid Films</i> , 2010, 519, 1334-1340.	1.8	13

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55	Grazing angle reflectance spectroscopy of organic monolayers on nanocrystalline diamond films. <i>Diamond and Related Materials</i> , 2011, 20, 882-885.	3.9	13
56	Epoxy catalyzed sol-gel method for pinhole-free pyrite FeS ₂ thin films. <i>Journal of Alloys and Compounds</i> , 2014, 607, 169-176.	5.5	13
57	Structural, optical and electrical properties of nanodiamond films deposited by HFCVD on borosilicate glass, fused silica and silicon at low temperature. <i>Physica Status Solidi A</i> , 2004, 201, 2499-2502.	1.7	12
58	Substrate temperature changes during molecular beam epitaxy growth of GaMnAs. <i>Journal of Applied Physics</i> , 2007, 102, .	2.5	12
59	Deposition of nanocrystalline diamond films on temperature sensitive substrates for infrared reflectance spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2736-2739.	1.5	12
60	Exciton diffusion length and concentration of holes in MEH-PPV polymer using the surface voltage and surface photovoltage methods. <i>Chemical Physics Letters</i> , 2012, 552, 49-52.	2.6	12
61	Thermal sulfidation of α -Fe ₂ O ₃ hematite to FeS ₂ pyrite thin electrodes: Correlation between surface morphology and photoelectrochemical functionality. <i>Catalysis Today</i> , 2018, 313, 224-230.	4.4	12
62	Nanostructured Diamond Layers Enhance the Infrared Spectroscopy of Biomolecules. <i>Langmuir</i> , 2014, 30, 2054-2060.	3.5	11
63	Ferromagnetism appears in nitrogen implanted nanocrystalline diamond films. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 394, 477-480.	2.3	11
64	Raman scattering in boron doped nanocrystalline diamond films: Manifestation of Fano interference and phonon confinement effect. <i>Solid State Communications</i> , 2018, 276, 33-36.	1.9	11
65	Optical characterization of low temperature amorphous MoO _x , WO _x , and VO _x prepared by pulsed laser deposition. <i>Thin Solid Films</i> , 2020, 693, 137690.	1.8	11
66	Hydrothermally grown ZnO:Mo nanorods exposed to X-ray: Luminescence and charge trapping phenomena. <i>Applied Surface Science</i> , 2022, 585, 152682.	6.1	11
67	Technological possibilities of Si:H thin film deposition with embedded cubic Mg ₂ Si nanoparticles. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 1712-1716.	0.8	10
68	Optical properties of μ c-Si structures based on amorphous hydrogenated silicon with silicon nanocrystals formed via nanosecond laser annealing. <i>Semiconductors</i> , 2016, 50, 935-940.	0.5	10
69	Nanodiamond surface chemistry controls assembly of polypyrrole and generation of photovoltage. <i>Scientific Reports</i> , 2021, 11, 590.	3.3	10
70	Enhanced Photodegradation in Metal Oxide Nanowires with Co-Doped Surfaces under a Low Magnetic Field. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23173-23180.	8.0	10
71	Solar-Blind Diamond Detectors for Lyra, the Solar VUV Radiometer on Board Proba II. <i>Experimental Astronomy</i> , 2003, 16, 141-148.	3.7	9
72	On the reduction of the non-diamond phase in nanocrystalline CVD diamond films. <i>Diamond and Related Materials</i> , 2009, 18, 726-729.	3.9	9

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73	Optimum performance solar cells using atmospheric pressure chemical vapour deposition deposited TiO ₂ layers. <i>International Journal of Nanotechnology</i> , 2009, 6, 816.	0.2	9
74	Fourier transform photocurrent measurement of thin silicon films on rough, conductive and opaque substrates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 578-581.	1.8	9
75	Optical characterisation of organosilane-modified nanocrystalline diamond films. <i>Chemical Papers</i> , 2011, 65, .	2.2	9
76	N ⁺ -related fluorescence of the monoenergetic high-energy electron-irradiated diamond nanoparticles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 2519-2524.	1.8	9
77	Synthesis and properties of diamond - silicon carbide composite layers. <i>Journal of Alloys and Compounds</i> , 2019, 800, 327-333.	5.5	9
78	Local Variations and Temperature Dependence of Optical Absorption Coefficient in Natural I _{IIa} Type and CVD Diamond Optical Windows. <i>Physica Status Solidi A</i> , 2001, 186, 297-301.	1.7	8
79	Photocurrent study of electronic defects in nanocrystalline diamond. <i>Diamond and Related Materials</i> , 2008, 17, 1311-1315.	3.9	8
80	Towards optical-quality nanocrystalline diamond with reduced non-diamond content. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 2004-2008.	1.8	8
81	The optical absorption of metal nanoparticles deposited on ZnO films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010, 207, 1722-1725.	1.8	8
82	Electrical and optical characteristics of boron doped nanocrystalline diamond films. <i>Vacuum</i> , 2019, 168, 108813.	3.5	8
83	Room temperature plasma hydrogenation – An effective way to suppress defects in ZnO nanorods. <i>Materials Today: Proceedings</i> , 2020, 33, 2481-2483.	1.8	8
84	Photo-Hall effect measurements in P, N and B-doped diamond at low temperatures. <i>Diamond and Related Materials</i> , 2004, 13, 713-717.	3.9	7
85	Co-implantation of Er and Yb ions into single-crystalline and nano-crystalline diamond. <i>Surface and Interface Analysis</i> , 2018, 50, 1218-1223.	1.8	7
86	Charge trapping processes in hydrothermally grown Er-doped ZnO. <i>Radiation Measurements</i> , 2022, 150, 106700.	1.4	7
87	Free-Standing ZnO:Mo Nanorods Exposed to Hydrogen or Oxygen Plasma: Influence on the Intrinsic and Extrinsic Defect States. <i>Materials</i> , 2022, 15, 2261.	2.9	7
88	Why Does Diamond Absorb Infra-Red Radiation?. <i>Physica Status Solidi A</i> , 2002, 193, 442-447.	1.7	6
89	Spectroscopy of thin nanodiamond layers and membranes. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1344-1347.	3.1	6
90	Si-related color centers in nanocrystalline diamond thin films. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2603-2606.	1.5	6

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91	Formation and study of p-n structures based on two-phase hydrogenated silicon with a germanium layer in the i-type region. <i>Semiconductors</i> , 2017, 51, 1370-1376.	0.5	6
92	Optical properties of the plasma hydrogenated ZnO thin films. <i>Journal of Electrical Engineering</i> , 2017, 68, 70-73.	0.7	6
93	Scanning Tunneling Microscopy and Spectroscopy of Non-Doped, Hydrogen Terminated CVD Diamond. <i>Physica Status Solidi A</i> , 2000, 181, 77-81.	1.7	5
94	Defect-dopant interaction in n- and p-type diamond and its influence on electrical properties. <i>Diamond and Related Materials</i> , 2004, 13, 722-726.	3.9	5
95	Erbium Luminescence Centres in Single- and Nano-Crystalline Diamond—Effects of Ion Implantation Fluence and Thermal Annealing. <i>Micromachines</i> , 2018, 9, 316.	2.9	5
96	Optoelectronic Properties of Hydrogenated Amorphous Substoichiometric Silicon Carbide with Low Carbon Content Deposited on Semi-transparent Boron-Doped Diamond. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019, 216, 1900241.	1.8	5
97	Maximized vertical photoluminescence from optical material with losses employing resonant excitation and extraction of photonic crystal modes. <i>Nanophotonics</i> , 2019, 8, 1041-1050.	6.0	5
98	Electroluminescence of thin film p-n diodes based on a-SiC:H with integrated Ge nanoparticles. <i>EPL Applied Physics</i> , 2019, 88, 30302.	0.7	5
99	Photo-Hall measurements on phosphorus-doped n-type CVD diamond at low temperatures. <i>Physica Status Solidi A</i> , 2003, 199, 82-86.	1.7	4
100	The influence of thermal annealing on the electronic defect states in nanocrystalline CVD diamond films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008, 205, 2158-2162.	1.8	4
101	Optimization of Solar Cell Performance using Atmospheric Pressure Chemical Vapour Deposition deposited TCOs. <i>ECS Transactions</i> , 2009, 25, 789-796.	0.5	4
102	INFRARED PHOTOLUMINESCENCE SPECTRA OF PBS NANOPARTICLES PREPARED BY LANGMUIR-BLODGETT AND LASER ABLATION METHODS. <i>Acta Polytechnica</i> , 2014, 54, 426-429.	0.6	4
103	Nickel oxide films by thermal annealing of ion-beam-sputtered Ni: Structure and electro-optical properties. <i>Thin Solid Films</i> , 2017, 640, 52-59.	1.8	4
104	High-Temperature PIN Diodes Based on Amorphous Hydrogenated Silicon-Carbon Alloys and Boron-Doped Diamond Thin Films. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900247.	1.5	4
105	Pulsed laser deposition of high-transparency molybdenum oxide thin films. <i>Vacuum</i> , 2021, 194, 110613.	3.5	4
106	Microscopic Study of Bovine Serum Albumin Adsorption on Zinc Oxide (0001) Surface. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2000558.	1.8	4
107	Surface and Ultrathin-layer Absorptance Spectroscopy for Solar Cells. <i>Energy Procedia</i> , 2014, 60, 57-62.	1.8	3
108	Fabrication of diamond-coated germanium ATR prisms for IR-spectroscopy. <i>Vibrational Spectroscopy</i> , 2016, 84, 67-73.	2.2	3

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109	Manipulation of the magnetoabsorption effect in Co-coated ZnO nanowires with Au decoration. Applied Surface Science, 2019, 492, 591-597.	6.1	3
110	Photothermal Deflection Mapping of Variations in the Optical Absorption in IR Windows. Physica Status Solidi A, 2000, 181, 115-119.	1.7	2
111	Infrared optical properties of heavily B-doped nanocrystalline diamond films on low alkaline glass substrates. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 3016-3020.	1.8	2
112	Study of the passivation mechanisms of boron doped diamond using the Amplitude Modulated Step Scan Fourier Transform Photocurrent Spectroscopy. Diamond and Related Materials, 2009, 18, 827-830.	3.9	2
113	Laser profiling of defects in BaWO ₄ crystals. Measurement Science and Technology, 2012, 23, 087001.	2.6	2
114	Multiple kinds of emission modes in semiconductor microcavity coupled with plasmon. Physica B: Condensed Matter, 2014, 434, 74-77.	2.7	2
115	plasma HYDROGENATION OF HYDROTHERMALLY GROWN ZnO MICROPODS. , 2020, , .		2
116	Deposition of magnesium silicide nanoparticles by the combination of vacuum evaporation and hydrogen plasma treatment. , 0, , .		2
117	Transformation of ZnO-based structures under heavy Mo doping: defect states and luminescence. , 2021, , .		2
118	Single Crystal CVD Diamond growth and characterizations. Materials Research Society Symposia Proceedings, 2006, 956, 1.	0.1	1
119	Optical absorption losses in metal layers used in thin film solar cells. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2170-2173.	1.8	1
120	Photoluminescence eigenmodes in the ZnO semiconductor microcavity on the Ag/Si substrate. Applied Physics A: Materials Science and Processing, 2013, 112, 821-825.	2.3	1
121	Manipulated Optical Absorption and Accompanied Photocurrent Using Magnetic Field in Charger Transfer Engineered C/ZnO Nanowires. Global Challenges, 2020, 4, 2000025.	3.6	1
122	Single-Source Pulsed Laser Deposition of MAPbI ₃ . , 2021, , .		1
123	Changes of morphological, optical and electrical properties induced by hydrogen plasma on (0001) ZnO Surface. Physica Status Solidi (A) Applications and Materials Science, 0, , 2100427.	1.8	1
124	Plasma Treatment of Ga ³⁺ -Doped ZnO Nanorods. Physica Status Solidi (A) Applications and Materials Science, 2022, 219, .	1.8	1
125	Comparison Between Chemical and Plasmatic Treatment of Seeding Layer for Patterned Diamond Growth. Materials Research Society Symposia Proceedings, 2009, 1203, 1.	0.1	0
126	Optical Monitoring of Nanocrystalline Diamond with Reduced Non-diamond Contamination. Materials Research Society Symposia Proceedings, 2009, 1203, 1.	0.1	0

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127	BaWO ₄ intracavity pumped eye-safe Raman laser. , 2014, , .		0
128	Production of zinc oxide nanowires power with precisely defined morphology. Journal of Electrical Engineering, 2017, 68, 66-69.	0.7	0
129	Measurement of doping profiles by a contactless method of IR reflectance under grazing incidence. Review of Scientific Instruments, 2018, 89, 063114.	1.3	0
130	Ytterbium silicide nanostructures prepared by pulsed laser ablation in oven: Structural and electrical characterization. Materials Letters, 2019, 246, 17-19.	2.6	0
131	Effect of a-Si on CH ₃ NH ₃ PbI ₃ Films and Applications in Perovskite Solar Cells. , 2019, , .		0
132	Microscopic Study of Bovine Serum Albumin Adsorption on Zinc Oxide (0001) Surface. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2170024.	1.8	0
133	Nanocrystalline diamond films heavily doped by boron: structure, optical and electrical properties. , 2019, , .		0
134	Emergence of DARK ZnO Nanorods by Hydrogen Plasma Treatment. , 2021, , .		0
135	Plasma-synthesised Zinc oxide nanoparticle behavior in liquids. , 2021, , .		0