

# 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  
docs citations

136  
times ranked

2944  
citing authors

#	ARTICLE	IF	CITATIONS
1	Charge trapping processes in hydrothermally grown Er-doped ZnO. <i>Radiation Measurements</i> , 2022, 150, 106700.	1.4	7
2	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
3	Plasma Treatment of Ga-Doped ZnO Nanorods. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2022, 219, .	1.8	1
4	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
5	Nanodiamond surface chemistry controls assembly of polypyrrole and generation of photovoltage. <i>Scientific Reports</i> , 2021, 11, 590.	3.3	10
6	Microscopic Study of Bovine Serum Albumin Adsorption on Zinc Oxide (0001) Surface. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2170024.	1.8	0
7	Enhanced Photodegradation in Metal Oxide Nanowires with Co-Doped Surfaces under a Low Magnetic Field. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 23173-23180.	8.0	10
8	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
9	Single-Source Pulsed Laser Deposition of MAPbI <sub>3</sub> . , 2021, , .		1
10	Pulsed laser deposition of high-transparency molybdenum oxide thin films. <i>Vacuum</i> , 2021, 194, 110613.	3.5	4
11	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
12	Emergence of DARK ZnO Nanorods by Hydrogen Plasma Treatment. , 2021, , .		0
13	Transformation of ZnO-based structures under heavy Mo doping: defect states and luminescence. , 2021, , .		2
14	Plasma-synthesised Zinc oxide nanoparticle behavior in liquids. , 2021, , .		0
15	Optical characterization of low temperature amorphous MoO <sub>x</sub> , WO <sub>x</sub> , and VO <sub>x</sub> prepared by pulsed laser deposition. <i>Thin Solid Films</i> , 2020, 693, 137690.	1.8	11
16	Manipulated Optical Absorption and Accompanied Photocurrent Using Magnetic Field in Charger Transfer Engineered C/ZnO Nanowires. <i>Global Challenges</i> , 2020, 4, 2000025.	3.6	1
17	Single-Source, Solvent-Free, Room Temperature Deposition of Black $\text{In}_2\text{S}_3$ Films. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000162.	3.7	32
18	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

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19	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
20	plasma HYDROGENATION OF HYDROTHERMALLY GROWN ZnO MICROPODS. , 2020, , .		2
21	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
22	Electrical and optical characteristics of boron doped nanocrystalline diamond films. <i>Vacuum</i> , 2019, 168, 108813.	3.5	8
23	Manipulation of the magnetoabsorption effect in Co-coated ZnO nanowires with Au decoration. <i>Applied Surface Science</i> , 2019, 492, 591-597.	6.1	3
24	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
25	Synthesis and properties of diamond - silicon carbide composite layers. <i>Journal of Alloys and Compounds</i> , 2019, 800, 327-333.	5.5	9
26	Ytterbium silicide nanostructures prepared by pulsed laser ablation in oven: Structural and electrical characterization. <i>Materials Letters</i> , 2019, 246, 17-19.	2.6	0
27	Effect of a-Si on CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Films and Applications in Perovskite Solar Cells. , 2019, , .		0
28	Electroluminescence of thin film <i>p-i-n</i> diodes based on a-SiC:H with integrated Ge nanoparticles. <i>EPJ Applied Physics</i> , 2019, 88, 30302.	0.7	5
29	Study of ZnO nanorods grown under UV irradiation. <i>Applied Surface Science</i> , 2019, 472, 105-111.	6.1	41
30	Nanocrystalline diamond films heavily doped by boron: structure, optical and electrical properties. , 2019, , .		0
31	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
32	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
33	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
34	Thermal sulfidation of $\alpha$ -Fe <sub>2</sub> O <sub>3</sub> hematite to FeS <sub>2</sub> pyrite thin electrodes: Correlation between surface morphology and photoelectrochemical functionality. <i>Catalysis Today</i> , 2018, 313, 224-230.	4.4	12
35	Synthesis of zinc oxide nanostructures and comparison of their crystal quality. <i>Applied Surface Science</i> , 2018, 461, 190-195.	6.1	29
36	Refractive indices of layers and optical simulations of Cu(In,Ga)Se <sub>2</sub> solar cells. <i>Science and Technology of Advanced Materials</i> , 2018, 19, 396-410.	6.1	46

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37	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
38	Measurement of doping profiles by a contactless method of IR reflectance under grazing incidence. <i>Review of Scientific Instruments</i> , 2018, 89, 063114.	1.3	0
39	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
40	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
41	Optically transparent composite diamond/Ti electrodes. <i>Carbon</i> , 2017, 119, 179-189.	10.3	18
42	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
43	Formation and study of $i$ -type 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
44	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
45	Optical properties of the plasma hydrogenated ZnO thin films. <i>Journal of Electrical Engineering</i> , 2017, 68, 70-73.	0.7	6
46	Production of zinc oxide nanowires power with precisely defined morphology. <i>Journal of Electrical Engineering</i> , 2017, 68, 66-69.	0.7	0
47	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
48	Preparation and optical properties of nanocrystalline diamond coatings for infrared planar waveguides. <i>Thin Solid Films</i> , 2016, 618, 130-133.	1.8	23
49	Optical properties of $i$ -type structures based on amorphous hydrogenated silicon with silicon nanocrystals formed via nanosecond laser annealing. <i>Semiconductors</i> , 2016, 50, 935-940.	0.5	10
50	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
51	Fabrication of diamond-coated germanium ATR prisms for IR-spectroscopy. <i>Vibrational Spectroscopy</i> , 2016, 84, 67-73.	2.2	3
52	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
53	N $\alpha$ -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
54	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

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55	Ferromagnetism appears in nitrogen implanted nanocrystalline diamond films. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 394, 477-480.	2.3	11
56	On the improvement of PEC activity of hematite thin films deposited by high-power pulsed magnetron sputtering method. <i>Applied Catalysis B: Environmental</i> , 2015, 165, 344-350.	20.2	41
57	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
58	Si-related color centers in nanocrystalline diamond thin films. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 2603-2606.	1.5	6
59	Multiple kinds of emission modes in semiconductor microcavity coupled with plasmon. <i>Physica B: Condensed Matter</i> , 2014, 434, 74-77.	2.7	2
60	High-power pulsed plasma deposition of hematite photoanode for PEC water splitting. <i>Catalysis Today</i> , 2014, 230, 8-14.	4.4	32
61	BaWO <sub>4</sub> intracavity pumped eye-safe Raman laser. , 2014, , .		0
62	Organic-Inorganic Halide Perovskites: Perspectives for Silicon-Based Tandem Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2014, 4, 1545-1551.	2.5	123
63	Nanostructured Diamond Layers Enhance the Infrared Spectroscopy of Biomolecules. <i>Langmuir</i> , 2014, 30, 2054-2060.	3.5	11
64	Epoxy catalyzed sol-gel method for pinhole-free pyrite FeS <sub>2</sub> thin films. <i>Journal of Alloys and Compounds</i> , 2014, 607, 169-176.	5.5	13
65	Surface and Ultrathin-layer Absorptance Spectroscopy for Solar Cells. <i>Energy Procedia</i> , 2014, 60, 57-62.	1.8	3
66	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
67	Photoluminescence eigenmodes in the ZnO semiconductor microcavity on the Ag/Si substrate. <i>Applied Physics A: Materials Science and Processing</i> , 2013, 112, 821-825.	2.3	1
68	Deposition of hematite Fe <sub>2</sub> O <sub>3</sub> 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
69	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
70	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
71	Design and investigation of properties of nanocrystalline diamond optical planar waveguides. <i>Optics Express</i> , 2013, 21, 8417.	3.4	22
72	Technological possibilities of Si:H thin film deposition with embedded cubic Mg <sub>2</sub> Si nanoparticles. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2013, 10, 1712-1716.	0.8	10

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73	Laser profiling of defects in BaWO <sub>4</sub> crystals. Measurement Science and Technology, 2012, 23, 087001.	2.6	2
74	Optical study of defects in nano-diamond films grown in linear antenna microwave plasma CVD from H <sub>2</sub> /CH <sub>4</sub> /CO <sub>2</sub> gas mixture. Physica Status Solidi (B): Basic Research, 2012, 249, 2635-2639.	1.5	18
75	Exciton diffusion length in some thermocleavable polythiophenes by the surface photovoltage method. Synthetic Metals, 2012, 161, 2727-2731.	3.9	15
76	ZnO hedgehog-like structures for control cell cultivation. Applied Surface Science, 2012, 258, 3485-3489.	6.1	17
77	Exciton diffusion length and concentration of holes in MEH-PPV polymer using the surface voltage and surface photovoltage methods. Chemical Physics Letters, 2012, 552, 49-52.	2.6	12
78	Grazing angle reflectance spectroscopy of organic monolayers on nanocrystalline diamond films. Diamond and Related Materials, 2011, 20, 882-885.	3.9	13
79	Nanostructured three-dimensional thin film silicon solar cells with very high efficiency potential. Applied Physics Letters, 2011, 98, .	3.3	92
80	Optical characterisation of organosilane-modified nanocrystalline diamond films. Chemical Papers, 2011, 65, .	2.2	9
81	Deposition of nanocrystalline diamond films on temperature sensitive substrates for infrared reflectance spectroscopy. Physica Status Solidi (B): Basic Research, 2011, 248, 2736-2739.	1.5	12
82	Double hollow cathode plasma jet-low temperature method for the TiO <sub>2</sub> -N photoresponding films. Electrochimica Acta, 2010, 55, 1548-1556.	5.2	26
83	Control of tin oxide film morphology by addition of hydrocarbons to the chemical vapour deposition process. Thin Solid Films, 2010, 519, 1334-1340.	1.8	13
84	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
85	Fourier transform photocurrent measurement of thin silicon films on rough, conductive and opaque substrates. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 578-581.	1.8	9
86	The optical absorption of metal nanoparticles deposited on ZnO films. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1722-1725.	1.8	8
87	High optical quality nanocrystalline diamond with reduced non-diamond contamination. Diamond and Related Materials, 2010, 19, 453-456.	3.9	17
88	Comparison Between Chemical and Plasmatic Treatment of Seeding Layer for Patterned Diamond Growth. Materials Research Society Symposia Proceedings, 2009, 1203, 1.	0.1	0
89	Optimization of Solar Cell Performance using Atmospheric Pressure Chemical Vapour Deposition deposited TCOs. ECS Transactions, 2009, 25, 789-796.	0.5	4
90	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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91	Towards optical-quality nanocrystalline diamond with reduced non-diamond content. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2004-2008.	1.8	8
92	Amorphous silicon solar cells made with SnO <sub>2</sub> :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
93	Atmospheric pressure chemical vapour deposition of F doped SnO <sub>2</sub> for optimum performance solar cells. Thin Solid Films, 2009, 517, 3061-3065.	1.8	58
94	Optical properties of SnO <sub>2</sub> :F films deposited by atmospheric pressure CVD. Thin Solid Films, 2009, 517, 6287-6289.	1.8	74
95	The infrared optical absorption spectra of the functionalized nanocrystalline diamond surface. Diamond and Related Materials, 2009, 18, 772-775.	3.9	14
96	On the reduction of the non-diamond phase in nanocrystalline CVD diamond films. Diamond and Related Materials, 2009, 18, 726-729.	3.9	9
97	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
98	Optimum performance solar cells using atmospheric pressure chemical vapour deposition deposited TCOs. International Journal of Nanotechnology, 2009, 6, 816.	0.2	9
99	The influence of thermal annealing on the electronic defect states in nanocrystalline CVD diamond films. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 2158-2162.	1.8	4
100	Formation of Continuous Nanocrystalline Diamond Layers on Glass and Silicon at Low Temperatures. Chemical Vapor Deposition, 2008, 14, 181-186.	1.3	77
101	Comparison of photocurrent spectra measured by FTPS and CPM for amorphous silicon layers and solar cells. Journal of Non-Crystalline Solids, 2008, 354, 2167-2170.	3.1	18
102	Spectral response of amorphous/nano-crystalline silicon thin films. Journal of Non-Crystalline Solids, 2008, 354, 2286-2290.	3.1	24
103	Photocurrent study of electronic defects in nanocrystalline diamond. Diamond and Related Materials, 2008, 17, 1311-1315.	3.9	8
104	Substrate temperature changes during molecular beam epitaxy growth of GaMnAs. Journal of Applied Physics, 2007, 102, .	2.5	12
105	The RF plasma surface chemical modification of nanodiamond films grown on glass and silicon at low temperature. Diamond and Related Materials, 2007, 16, 671-674.	3.9	21
106	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
107	Amplitude modulated step scan Fourier transform photocurrent spectroscopy of partly compensated B-doped CVD diamond thin films. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 2950-2956.	1.8	13
108	Time of flight study of high performance CVD diamond detector devices. Physica Status Solidi (A) Applications and Materials Science, 2007, 204, 3023-3029.	1.8	29

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109	Nanocrystalline diamond surface functionalization in radio frequency plasma. <i>Diamond and Related Materials</i> , 2006, 15, 745-748.	3.9	31
110	Spectroscopy of thin nanodiamond layers and membranes. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1344-1347.	3.1	6
111	Growth of nanocrystalline diamond films deposited by microwave plasma CVD system at low substrate temperatures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 3011-3015.	1.8	45
112	Infrared optical properties of heavily B-doped nanocrystalline diamond films on low alkaline glass substrates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2006, 203, 3016-3020.	1.8	2
113	LYRA, a solar UV radiometer on Proba2. <i>Advances in Space Research</i> , 2006, 37, 303-312.	2.6	80
114	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
115	Single Crystal CVD Diamond growth and characterizations. <i>Materials Research Society Symposia Proceedings</i> , 2006, 956, 1.	0.1	1
116	The optical absorption and photoconductivity spectra of hexagonal boron nitride single crystals. <i>Physica Status Solidi A</i> , 2005, 202, 2229-2233.	1.7	40
117	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
118	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
119	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
120	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
121	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
122	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
123	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
124	Why Does Diamond Absorb Infra-Red Radiation?. <i>Physica Status Solidi A</i> , 2002, 193, 442-447.	1.7	6
125	Local Variations and Temperature Dependence of Optical Absorption Coefficient in Natural IIa Type and CVD Diamond Optical Windows. <i>Physica Status Solidi A</i> , 2001, 186, 297-301.	1.7	8
126	Photothermal Deflection Mapping of Variations in the Optical Absorption in IR Windows. <i>Physica Status Solidi A</i> , 2000, 181, 115-119.	1.7	2

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127	Scanning Tunneling Microscopy and Spectroscopy of Non-Doped, Hydrogen Terminated CVD Diamond. Physica Status Solidi A, 2000, 181, 77-81.	1.7	5
128	Optical absorption and light scattering in microcrystalline silicon thin films and solar cells. Journal of Applied Physics, 2000, 88, 148-160.	2.5	236
129	Optical properties of microcrystalline materials. Journal of Non-Crystalline Solids, 1998, 227-230, 967-972.	3.1	72
130	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
131	Silicon network relaxation in amorphous hydrogenated silicon. Physical Review B, 1997, 56, R12710-R12713.	3.2	68
132	Enhanced optical absorption in microcrystalline silicon. Journal of Non-Crystalline Solids, 1996, 198-200, 903-906.	3.1	52
133	The Optical Spectra of a-Si:H and a-SiC:H Thin Films Measured by the Absolute Photothermal Deflection Spectroscopy (PDS). Solid State Phenomena, 0, 213, 19-28.	0.3	14
134	Deposition of magnesium silicide nanoparticles by the combination of vacuum evaporation and hydrogen plasma treatment. , 0, , .		2
135	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