Juraj Breza

List of Publications by Year
in descending order

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37 papers	338 citations	1040056 9 h-index	839539 18 g-index
37 all docs	37 docs citations	37 times ranked	335 citing authors

#	Article	IF	Citations
1	Hydroxylation and dehydroxylation at Cu(III) surfaces. Chemical Physics Letters, 1979, 66, 340-343.	2.6	125
2	The growth of carbon nanotubes on montmorillonite and zeolite (clinoptilolite). Applied Surface Science, 2008, 254, 5073-5079.	6.1	29
3	The growth of multi-walled carbon nanotubes on natural clay minerals (kaolinite, nontronite and) Tj ETQq1 1 0.784314 rgBT /Overloc	6.1	23
4	Raman spectroscopy of porous silicon substrates. Optik, 2018, 174, 347-353.	2.9	17
5	Potentiostatic electrodeposition under light irradiation for preparation of highly photoactive Cu2O for water splitting applications. Applied Surface Science, 2018, 461, 196-201.	6.1	16
6	Extended thermionic emission-diffusion theory of charge transport through a Schottky diode. Solid-State Electronics, 1996, 39, 391-397.	1.4	14
7	Interference enhancement in SERS spectra of rhodamine 6G: Relation to reflectance. Vibrational Spectroscopy, 2017, 90, 31-37.	2.2	13
8	Diamond icosahedron on a TiN-coated steel substrate. Microelectronics Journal, 2004, 35, 709-712.	2.0	11
9	Quantitative Auger electron spectroscopy of SiC. Vacuum, 2006, 80, 990-995.	3.5	9
10	Unified tunnelling-diffusion theory for Schottky and very thin MOS structures. Solid-State Electronics, 2008, 52, 1755-1765.	1.4	9
11	Raman mapping as a tool for discrimination of blue writing inks and their cross lines. Vibrational Spectroscopy, 2015, 79, 11-15.	2.2	8
12	Bundles of carbon nanotubes grown on sapphire and quartz substrates by catalytic hot filament chemical vapor deposition. Materials Letters, 2007, 61, 4549-4552.	2.6	7
13	Capacitance study of carrier inversion at the amorphous/crystalline silicon heterojunction passivated by different thicknesses of i-layer. Applied Surface Science, 2014, 312, 152-156.	6.1	7
14	AES of semi-insulating polycrystalline silicon layers. Applied Surface Science, 1996, 99, 9-14.	6.1	6
15	Examining the ground layer of St. Anthony from Padua 19th century oil painting by Raman spectroscopy, scanning electron microscopy and X-ray diffraction. Applied Surface Science, 2013, 264, 692-698.	6.1	6
16	A model of trap-assisted tunneling in GaN/AlGaN/GaN heterostructure based on exchange times. Applied Surface Science, 2014, 312, 68-73.	6.1	6
17	Title is missing!. European Physical Journal D, 1997, 47, 649-655.	0.4	4
18	Raman Spectra of Two Samples of Rubrene Layers. Journal of Electrical Engineering, 2010, 61, 296-298.	0.7	4

#	Article	IF	Citations
19	Simulation of real I-V characteristics of metal/GaN/AlGaN heterostructure based on the 12-EXT model of trap-assisted tunnelling. Applied Surface Science, 2017, 395, 122-130.	6.1	4
20	Improving the ohmic properties of contacts to Pâ€“GaN by adding pâ€“type dopants into the metallization layer. Journal of Electrical Engineering, 2012, 63, 397-401.	0.7	3
21	Raman spectroscopy of silicon with nanostructured surface. Optik, 2022, 257, 168869.	2.9	3
22	Utilization of catalytically active metals in mining waste and water for synthesis of carbon nanotubes. Cleaner Engineering and Technology, 2022, 8, 100459.	4.0	3
23	Electron diffraction on graphite nanocrystals in the walls of carbon nanotubes. Applied Surface Science, 2009, 255, 7568-7573.	6.1	2
24	Contribution to the Quantitative Analysis of Ternary Alloys of Group III-Nitrides by Auger Spectroscopy. Journal of Electrical Engineering, 2010, 61, 62-64.	0.7	2
25	Interference enhanced first-order Raman band of monocrystalline silicon. Vacuum, 2014, 110, 102-105.	3.5	2
26	The layers of carbon nanomaterials as the base of ohmic contacts to p-GaN. Applied Surface Science, 2014, 312, 63-67.	6.1	2
27	Erratum to â€œÄ½ubomÃr VanÄo, MagdalÃ©na KadleÄÃkovÃ¡, Juraj Breza, Pavol Michniak, Michal ÄŒeppan, Milena RehÃ¡kovÃ¡, Eva BelÃ¡nyiovÃ¡, Beata ButvinovÃ¡: Differentiation of selected blue writing inks by surface-enhanced Raman spectroscopyâ€• Chemical Papers 69 (4) 518â€“526 (2015). Chemical Papers, 2015, 69, .	2.2	1
28	Characterization of MIS photoanode with a thin SiO2 layer for photoelectrochemical water splitting. AIP Conference Proceedings, 2019, , .	0.4	1
29	Preparation of Fe-impregnated sepiolite catalytic layers for synthesis of carbon nanotube nanocomposites. AIP Conference Proceedings, 2019, , .	0.4	1
30	Some simulated properties of the pseudostructure of a floating gate MOS transistor. , 2009, , .		0
31	The principle of a new thermometer in HF CVD reactor. , 2009, , .		0
32	Erratum to â€œÄ½ubomÃr VanÄo, MagdalÃ©na KadleÄÃkovÃ¡, Juraj Breza, Pavol Michniak, Michal ÄŒeppan, Milena RehÃ¡kovÃ¡, Eva BelÃ¡nyiovÃ¡, Beata ButvinovÃ¡: Differentiation of selected blue writing inks by surface-enhanced Raman spectroscopyâ€• Chemical Papers 69 (4) 518â€“526 (2015). Chemical Papers, 2015, 69, .	2.2	0
33	High-field electron mobility model of vertical charge transport in Al/Al2O3/GaN/AlGaN/GaN heterostructures. AIP Conference Proceedings, 2018, , .	0.4	0
34	Raman spectroscopy of material burnt in electric arc (a case study). AIP Conference Proceedings, 2018, , .	0.4	0
35	A model of antiparallel spontaneous and piezoelectric polarizations in AlGaN/GaN. AIP Conference Proceedings, 2019, , .	0.4	0
36	Vertical current transport processes in MOS-HEMT heterostructures. Applied Surface Science, 2020, 527, 146605.	6.1	0

#	Article	IF	Citations
37	Chemical treatment of montmorillonite and kaolinite for synthesis of carbon nanotubes. AIP Conference Proceedings, 2021, , .	0.4	0