Tomas Ficker

List of Publications by Year
in descending order

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86	560	687363 13	713466 21
papers	citations	h-index	g-index

87	87	87	356
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Numerical study of heat losses of building walls containing reflective foils. Indoor and Built Environment, 2022, 31, 1932-1948.	2.8	4
2	Simplified Peltier heat pump. European Journal of Physics, 2022, 43, 045102.	0.6	1
3	Addendum: Measurement of emissivity in student laboratories (2020 Eur. J. Phys. 41 015101). European Journal of Physics, 2021, 42, 039401.	0.6	0
4	Virtual emissivities of infrared thermometers. Infrared Physics and Technology, 2021, 114, 103656.	2.9	4
5	Measurement of emissivity in student laboratories. European Journal of Physics, 2020, 41, 015101.	0.6	1
6	Heat Losses of Window Compact Shutters. IOP Conference Series: Materials Science and Engineering, 2020, 960, 022021.	0.6	0
7	General Formalism for the Computation of Radiative Heat Transfer inside Buildings. IOP Conference Series: Materials Science and Engineering, 2019, 471, 062005.	0.6	0
8	Computations of Radiative Heat Transfer inside Buildings. IOP Conference Series: Materials Science and Engineering, 2019, 471, 062006.	0.6	0
9	Estimations of Radiative Heat Transfers in Enclosures. IOP Conference Series: Materials Science and Engineering, 2019, 603, 022031.	0.6	0
10	Radiative Heat Transfer in Buildings. IOP Conference Series: Materials Science and Engineering, 2019, 603, 022029.	0.6	1
11	Rock joint coefficients and their computerized classification. International Journal of Mining Science and Technology, 2019, 29, 701-709.	10.3	5
12	GENERAL MODEL OF RADIATIVE AND CONVECTIVE HEAT TRANSFER IN BUILDINGS: PART II: CONVECTIVE AND RADIATIVE HEAT LOSSES. Acta Polytechnica, 2019, 59, 224-237.	0.6	3
13	Radiosity Model and Compensation Theorem. IOP Conference Series: Materials Science and Engineering, 2019, 603, 022030.	0.6	1
14	GENERAL MODEL OF RADIATIVE AND CONVECTIVE HEAT TRANSFER IN BUILDINGS: PART I: ALGEBRAIC MODEL OF RADIATIVE HEAT TRANSFER. Acta Polytechnica, 2019, 59, 211-223.	0.6	3
15	Effect of Metallic Inclusions on the Compressive Strength of Cement-Based Materials. Advances in Materials Science and Engineering, 2018, 2018, 1-10.	1.8	0
16	Some remarks on the dynamical conformity of rock joints. International Journal of Mining Science and Technology, 2018, 28, 385-390.	10.3	2
17	Fractal properties of joint roughness coefficients. International Journal of Rock Mechanics and Minings Sciences, 2017, 94, 27-31.	5.8	17
18	Sectional techniques for 3D imaging of microscopic and macroscopic objects. Optik, 2017, 144, 289-299.	2.9	9

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19	Fitting Function for Flexural Strength of Cement Paste. IOP Conference Series: Materials Science and Engineering, 2017, 245, 032008.	0.6	0
20	Fractal Analysis of Rock Joint Profiles. IOP Conference Series: Materials Science and Engineering, 2017, 245, 032006.	0.6	1
21	Rock Joint Coefficients Derived from the Three-Dimensional Fourier Reliefs. IOP Conference Series: Materials Science and Engineering, 2017, 245, 032005.	0.6	0
22	Macrodefects and Microdefects within Porous Cement Pastes. IOP Conference Series: Materials Science and Engineering, 2017, 245, 032010.	0.6	0
23	Large Rock Reliefs and Their 3D Reconstructions. IOP Conference Series: Materials Science and Engineering, 2017, 245, 032004.	0.6	0
24	Evaluation of Rock Joint Coefficients. IOP Conference Series: Materials Science and Engineering, 2017, 245, 032007.	0.6	0
25	Rupture Strength and Irregularity of Fracture Surfaces. IOP Conference Series: Materials Science and Engineering, 2017, 245, 032009.	0.6	0
26	Rock Joint Asperities and Mechanical Strength of Concrete. IOP Conference Series: Materials Science and Engineering, 2017, 245, 032011.	0.6	0
27	A NUMERICAL TECHNIQUE FOR ASSESSING JOINT ROCK COEFFICIENTS. , 2017, , .		0
28	SELF-AFFINE ROCK JOINT PROFILES. , 2017, , .		0
29	A NEW METHOD FOR RECONSTRUCTIONS OF ROCK RELIEFS. , 2017, , .		0
30	FOURIER METHOD FOR EVALUATION OF IRREGULARITY OF ROCK JOINTS. , 2017, , .		0
31	Alternative Method for Assessing the Roughness Coefficients of Rock Joints. Journal of Computing in Civil Engineering, 2016, 30, .	4.7	18
32	Database 3D Surfaces for Evaluation of Joint Rock Coefficients. Procedia Engineering, 2016, 161, 1361-1366.	1.2	3
33	Threeâ€dimensional reconstructions of solid surfaces using conventional microscopes. Scanning, 2016, 38, 21-35.	1.5	12
34	ROCK JOINT SURFACES AND THEIR CALIBRATION CURVES. , 2016, , .		1
35	THREE-DIMENSIONAL ROCK JOINTS AND THEIR TOPOLOGY ASSESSMENTS. , 2016, , .		0
36	Computer Evaluation of Asperity Topology of Rock Joints. Procedia Earth and Planetary Science, 2015, 15, 125-132.	0.6	2

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37	High-quality three-dimensional reconstruction and noise reduction of multifocal images from oversized samples. Journal of Electronic Imaging, 2015, 24, 053029.	0.9	6
38	3D Image Reconstructions and the Nyquistâ€“Shannon Theorem. 3D Research, 2015, 6, 1.	1.8	7
39	Is componential strength analysis of concrete possible?. Magazine of Concrete Research, 2013, 65, 1480-1485.	2.0	16
40	Digital fracture surfaces and their roughness analysis: Applications to cement-based materials. Cement and Concrete Research, 2012, 42, 827-833.	11.0	24
41	Fracture surfaces and compressive strength of hydrated cement pastes. Construction and Building Materials, 2012, 27, 197-205.	7.2	17
42	Surface Roughness and Porosity of Hydrated Cement Pastes. Acta Polytechnica, 2011, 51, .	0.6	6
43	A remark on nano-particle stability of cement C-S-H gel. Open Physics, 2011, 9, .	1.7	1
44	Roughness and fractality of fracture surfaces as indicators of mechanical quantities of porous solids. Open Physics, 2011, 9, .	1.7	2
45	Quasi-static compressive strength of cement-based materials. Cement and Concrete Research, 2011, 41, 129-132.	11.0	15
46	SHEAR STRENGTH OF ROCKS BY VISUAL ASSESSMENT. , 2011, , .		0
47	Roughness of fracture surfaces and compressive strength of hydrated cement pastes. Cement and Concrete Research, 2010, 40, 947-955.	11.0	61
48	Electron Avalanche Statistics. Acta Physica Polonica A, 2009, 116, 1018-1020.	0.5	0
49	Fractal strength of cement gels and universal dimension of fracture surfaces. Theoretical and Applied Fracture Mechanics, 2008, 50, 167-171.	4.7	31
50	Streamer Spots on Dielectric Barriers. IEEE Transactions on Plasma Science, 2008, 36, 1310-1311.	1.3	1
51	Notes on hydrated cement fractals investigated by SANS. Journal Physics D: Applied Physics, 2007, 40, 4055-4059.	2.8	13
52	Fracture surfaces of porous materials. Europhysics Letters, 2007, 80, 16002.	2.0	7
53	Fractal multiplication of electron avalanches and streamers: new mechanism of electrical breakdown?. Journal Physics D: Applied Physics, 2007, 40, 7720-7733.	2.8	2
54	Electrification of human body by walking. Journal of Electrostatics, 2006, 64, 10-16.	1.9	67

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55	Charging by walking. Journal Physics D: Applied Physics, 2006, 39, 410-417.	2.8	28
56	Ring Rolling Research at the Dresden University of Technology â€“ its History from the Beginning in the 70s to the Present. Steel Research International, 2005, 76, 121-124.	1.8	7
57	Electrostatic microdischarges on the surface of electrets. Journal Physics D: Applied Physics, 2005, 38, 483-489.	2.8	8
58	A note on pareto statistics of partial microdischarge spots. IEEE Transactions on Dielectrics and Electrical Insulation, 2004, 11, 136-138.	2.9	2
59	Microdischarges Near Metalâ€“Insulator Interfaces. European Physical Journal D, 2003, 53, 509-516.	0.4	1
60	Non-isothermal steady-state diffusion within Glaserâ€™s condensation model. International Journal of Heat and Mass Transfer, 2003, 46, 5175-5182.	4.8	14
61	Electron avalanches I-statistics of partial microdischarges in their pre-streamer stage. IEEE Transactions on Dielectrics and Electrical Insulation, 2003, 10, 689-699.	2.9	13
62	Electron avalanches II- fractal morphology of partial microdischarge spots on dielectric barriers. IEEE Transactions on Dielectrics and Electrical Insulation, 2003, 10, 700-707.	2.9	14
63	Deterministic fractals. European Journal of Physics, 2002, 23, 403-408.	0.6	11
64	Simplified digital acquisition of microdischarge pulses. IEEE Transactions on Dielectrics and Electrical Insulation, 2001, 8, 220-227.	2.9	6
65	Non-linear Temperature Profiles. Acta Polytechnica, 2001, 41, .	0.6	5
66	Normalized multifractal spectra within the box-counting method. European Physical Journal D, 2000, 50, 389-403.	0.4	2
67	Young's modulus of elasticity in student laboratories. Physics Education, 1999, 34, 376-383.	0.5	12
68	Electrostatic discharges and multifractal analysis of their Lichtenberg figures. Journal Physics D: Applied Physics, 1999, 32, 219-226.	2.8	14
69	Unconventional multifractal formalism and image analysis of natural fractals. European Physical Journal D, 1999, 49, 1445-1459.	0.4	4
70	A non-stationary method for the measurement of the thermal conductivity of solids in student laboratories. European Journal of Physics, 1996, 17, 307-310.	0.6	1
71	Fractal statistics of partial discharges with polymeric samples. Journal of Applied Physics, 1995, 78, 5289-5295.	2.5	15
72	Amplitude distribution statistics of acoustic emission signals. Canadian Journal of Physics, 1992, 70, 640-643.	1.1	1

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73	Strain gauge measurements within the school laboratory practice. Strain, 1992, 28, 39-44.	2.4	2
74	The mass of growing multifractal clusters. European Physical Journal D, 1990, 40, 113-115.	0.4	1
75	Expansion of the Hausdorff dimension of the two-scale Cantor set. Physical Review A, 1989, 40, 3444-3445.	2.5	7
76	On the influence of measuring circuit on a DC partial-discharge repetition rate. Journal Physics D: Applied Physics, 1986, 19, 1491-1496.	2.8	3
77	Spark and Glow DC-Partial-Discharges in Dielectrics. Japanese Journal of Applied Physics, 1984, 23, 1263-1264.	1.5	7
78	Outer valence brokenâ€symmetry effects within HF calculations. Journal of Chemical Physics, 1984, 80, 3509-3510.	3.0	0
79	Broken symmetry in valence molecular region within Hartree-Fock calculations. Theoretica Chimica Acta, 1984, 65, 127-137.	0.8	5
80	Broken symmetry far from equilibrium in molecules within HF formalism. Journal of Chemical Physics, 1983, 78, 3339-3341.	3.0	5
81	A theoretical investigation of electron relaxation accompanying core ionization in the symmetry forms of ethylene. Collection of Czechoslovak Chemical Communications, 1982, 47, 3371-3374.	1.0	0
82	Localized and delocalized molecular orbitals within the model of single-orbital relaxation energies. Chemical Physics Letters, 1981, 83, 578-581.	2.6	0
83	Ab initio SCF investigation of the core and inner valence electron binding and relaxation energies of the CH4, C2 H2 and C2 H6 molecules. Journal of Electron Spectroscopy and Related Phenomena, 1981, 24, 161-171.	1.7	4
84	Electron binding and relaxation energies of ethylene, ethane and of their hindered rotamers. Journal of Electron Spectroscopy and Related Phenomena, 1981, 22, 87-91.	1.7	3
85	Electrostatic surface microdischarges and viscous fingering in liquid dielectrics. , 0, , .		1
86	Convective Heat Transfer Inside Planar Solar Collectors. IOP Conference Series: Materials Science and Engineering, 0, 960, 022020.	0.6	0