Roberto Dugnani

List of Publications by Year
in descending order

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29	202	1163117	1199594
papers	citations	8 h-index	12 g-index

30	30	30	70
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Predicting the flexural strength of chemically strengthened aluminosilicate glass plates with fractography. Journal of the European Ceramic Society, 2022, 42, 3603-3613.	5.7	4
2	Indentation fracture toughness of semiconducting gallium arsenide at elevated temperatures. Engineering Failure Analysis, 2022, 137, 106417.	4.0	1
3	Automated Quantitative Fractography of Silicate Glasses with Visual Analysis. Journal of Materials Engineering and Performance, 2021, 30, 3612-3623.	2.5	3
4	The response of self-centering concrete walls under quasi-static loading. Bulletin of Earthquake Engineering, 2021, 19, 2893-2917.	4.1	17
5	Analytical description of fracture features in single crystal silicon. European Journal of Mechanics, A/Solids, 2021, 87, 104203.	3.7	3
6	Self-centering walls strengthening by high-performance concrete: a feasibility study. Materials and Structures/Materiaux Et Constructions, 2021, 54, 1.	3.1	15
7	Fracture surface analysis and quantitative characterization of gallium arsenide III-V semiconductors using fractography. Engineering Failure Analysis, 2021, 123, 105313.	4.0	7
8	Precise residual stress profile in ion-exchanged silicate glass by modified contour method. Journal of the European Ceramic Society, 2021, 41, 4355-4368.	5.7	4
9	A study on ionâ€exchanged, sodaâ€lime glassâ€™s residual stress relationship with K + /Na + concentration. International Journal of Applied Glass Science, 2020, 11, 134-146.	2.0	5
10	Dynamic crack modeling and analytical stress field analysis in single-crystal silicon using quantitative fractography. Theoretical and Applied Fracture Mechanics, 2020, 109, 102693.	4.7	12
11	Detection of wood defects using low acoustic impedance-based PZT transducers. Journal of the Indian Academy of Wood Science, 2020, 17, 107-113.	0.9	2
12	Closed-form solution to the residual stresses in ion-exchanged silicate glass including concentration-dependent material properties. Journal of Non-Crystalline Solids, 2020, 536, 120012.	3.1	3
13	Statistical accuracy of fractographic estimation in silicate glasses with design of experiments and pairwise T-tests. Engineering Failure Analysis, 2020, 116, 104699.	4.0	6
14	Shape Evolution of Unstable, Flexural Cracks in Brittle Materials. Journal of Materials Engineering and Performance, 2020, 29, 1311-1320.	2.5	6
15	Fractographic analysis of silicate glasses by computer vision. Journal of the European Ceramic Society, 2020, 40, 3291-3303.	5.7	9
16	Energy release rate of moving circular-cracks. Engineering Fracture Mechanics, 2019, 213, 118-130.	4.3	10
17	Characterization of shallow stress-profiles in chemically strengthened soda-lime glass. Journal of Non-Crystalline Solids, 2019, 510, 130-142.	3.1	11
18	Quantifying the Accuracy of Fractographic Strength Estimates in Silicate Glasses. Journal of the European Ceramic Society, 2018, 38, 3643-3649.	5.7	8

#	Article	IF	Citations
19	Improved Fractographic Strength Estimates Based on Surface Profilometry. MATEC Web of Conferences, 2018, 166, 01005.	0.2	1
20	Non-Linearity of the Mirror Constant for Glasses Fractured in Flexure. Journal of Shanghai Jiaotong University (Science), 2018, 23, 182-189.	0.9	5
21	Residual stress in ion-exchanged silicate glass: An analytical solution. Journal of Non-Crystalline Solids, 2017, 471, 368-378.	3.1	12
22	Geometric description of fracture surface features in isotropic brittle solids. Engineering Fracture Mechanics, 2016, 165, 87-97.	4.3	8
23	Novel nondestructive evaluation transducer for imaging of low-impedance targets. Journal of Intelligent Material Systems and Structures, 2015, 26, 340-351.	2.5	2
24	Quantitative Characterization of Mechanical Stress Field and Fracture Strength in Isotropic Brittle Materials During Crack Tip Propagation. Journal of the American Ceramic Society, 2014, 97, 3853-3856.	3.8	3
25	Failure Analysis of Modern Silicon Dice. International Journal of Applied Ceramic Technology, 2014, 11, 783-792.	2.1	4
26	Reply to â€œComment on: â€˜Flexural Strength by Fractography in Modern Brittle Materialsâ€™â€. Journal of the American Ceramic Society, 2014, 97, 2674-2676.	3.8	1
27	Analytical model of dynamic crack evolution in tempered and strengthened glass plates. International Journal of Fracture, 2014, 190, 75-86.	2.2	14
28	Flexural Strength by Fractography in Modern Brittle Materials. Journal of the American Ceramic Society, 2013, 96, 3908-3914.	3.8	18
29	Novel Transducer for Characterization of Low-Impedance Materials. Key Engineering Materials, 0, 558, 435-444.	0.4	3