

# Oscar Borla

## List of Publications by Year in descending order

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23  
papers

393  
citations

758635

12  
h-index

940134

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33  
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docs citations

33  
times ranked

237  
citing authors

#	ARTICLE	IF	CITATIONS
1	Criticality Hidden in Acoustic Emissions and in Changing Electrical Resistance during Fracture of Rocks and Cement-Based Materials. <i>Materials</i> , 2020, 13, 5608.	1.3	19
2	Monitoring of the "twin towers" of Bologna in Italy. , 2020, 67, .		0
3	Acoustic, electromagnetic, and neutron emissions as seismic precursors: The lunar periodicity of low-magnitude seismic swarms. <i>Engineering Fracture Mechanics</i> , 2019, 210, 29-41.	2.0	18
4	Nano-scale fracture phenomena and TeraHertz pressure waves as the fundamental reasons for geochemical evolution. <i>Strength, Fracture and Complexity</i> , 2018, 11, 149-168.	0.2	3
5	Fracto-emissions as seismic precursors. <i>Engineering Fracture Mechanics</i> , 2017, 177, 239-250.	2.0	27
6	Radiotherapy dose enhancement using BNCT in conventional LINACs high-energy treatment: Simulation and experiment. <i>Reports of Practical Oncology and Radiotherapy</i> , 2016, 21, 117-122.	0.3	2
7	Cold Nuclear Fusion Explained by Hydrogen Embrittlement and Piezonuclear Fissions in Metallic Electrodes: Part I: Ni-Fe and Co-Cr Electrodes. , 2015, , 99-121.		1
8	Elemental Content Variations in Crushed Mortar Specimens Measured by Instrumental Neutron Activation Analysis (INAA). , 2015, , 73-82.		0
9	Scaling in damage by electrical resistance measurements: an application to the terracotta statues of the Sacred Mountain of Varallo Renaissance Complex (Italy). <i>Rendiconti Lincei</i> , 2015, 26, 203-209.	1.0	25
10	Design and simulation of an optimized e-linac based neutron source for BNCT research. <i>Applied Radiation and Isotopes</i> , 2015, 106, 63-67.	0.7	13
11	Cold Nuclear Fusion Explained by Hydrogen Embrittlement and Piezonuclear Fissions in Metallic Electrodes: Part II: Pd and Ni Electrodes. , 2015, , 123-134.		1
12	Frequency-Dependent Neutron Emissions During Fatigue Tests on Iron-Rich Natural Rocks. , 2015, , 39-56.		0
13	Neutron Emissions and Compositional Changes at the Compression Failure of Iron-Rich Natural Rocks. , 2015, , 23-37.		1
14	Alpha Particle Emissions from Carrara Marble Specimens Crushed in Compression and X-ray Photoelectron Spectroscopy of Correlated Nuclear Transmutations. , 2015, , 57-71.		0
15	Results of nDOSE and HiDOSE Experiments for Dosimetric Evaluation During STS-134 Mission. <i>Microgravity Science and Technology</i> , 2014, 25, 353-358.	0.7	2
16	Piezonuclear Fission Reactions from Earthquakes and Brittle Rocks Failure: Evidence of Neutron Emission and Non-Radioactive Product Elements. <i>Experimental Mechanics</i> , 2013, 53, 345-365.	1.1	43
17	BLOKIS: A Model Payload for Multidisciplinary Experiments in Microgravity. <i>Microgravity Science and Technology</i> , 2012, 24, 397-409.	0.7	22
18	Electromagnetic and neutron emissions from brittle rocks failure: Experimental evidence and geological implications. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2012, 37, 59-78.	0.8	57

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19	Piezonuclear Fission Reactions in Rocks: Evidences from Microchemical Analysis, Neutron Emission, and Geological Transformation. <i>Rock Mechanics and Rock Engineering</i> , 2012, 45, 445-459.	2.6	32
20	Energy emissions from brittle fracture: Neutron measurements and geological evidences of piezonuclear reactions. <i>Strength, Fracture and Complexity</i> , 2011, 7, 13-31.	0.2	42
21	Neutron emissions in brittle rocks during compression tests: Monotonic vs. cyclic loading. <i>Physical Mesomechanics</i> , 2010, 13, 268-274.	1.0	47
22	Comparison of different MC techniques to evaluate BNCT dose profiles in phantom exposed to various neutron fields. <i>Radiation Protection Dosimetry</i> , 2010, 138, 213-222.	0.4	4
23	Radiation protection measurements around a 12 MeV mobile dedicated IORT accelerator. <i>Medical Physics</i> , 2010, 37, 995-1003.	1.6	28