

Richard PÅikryl

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Some microstructural aspects of strength variation in rocks. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2001, 38, 671-682.	2.6	239
2	Assessment of rock geomechanical quality by quantitative rock fabric coefficients: Limitations and possible source of misinterpretations. <i>Engineering Geology</i> , 2006, 87, 149-162.	2.9	114
3	Current methods and future trends in testing, durability analyses and provenance studies of natural stones used in historical monuments. <i>Engineering Geology</i> , 2010, 115, 139-142.	2.9	79
4	Maturation of loess treated with variable lime admixture: Pore space textural evolution and related phase changes. <i>Applied Clay Science</i> , 2012, 61, 37-43.	2.6	72
5	Acoustic Emission Characteristics and Failure of Uniaxially Stressed Granitic Rocks: the Effect of Rock Fabric. <i>Rock Mechanics and Rock Engineering</i> , 2003, 36, 255-270.	2.6	67
6	The stress-strain behaviour of rock material related to fracture under compression. <i>Engineering Geology</i> , 1998, 49, 293-302.	2.9	50
7	Durability assessment of natural stone. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2013, 46, 377-390.	0.8	46
8	Experimental weathering of marlstone from Pátmik Kopanina (Czech Republic)â€”historical building stone of Prague. <i>Building and Environment</i> , 2003, 38, 1163-1171.	3.0	39
9	Processes Affecting Oxygen Isotope Ratios of Atmospheric and Ecosystem Sulfate in Two Contrasting Forest Catchments in Central Europe. <i>Environmental Science & Technology</i> , 2007, 41, 703-709.	4.6	39
10	Alkali-silica reaction products: Comparison between samples from concrete structures and laboratory test specimens. <i>Materials Characterization</i> , 2010, 61, 1379-1393.	1.9	37
11	Anthropogenic origin of salt crusts on sandstone sculptures of Prague's Charles Bridge (Czech) Tj ETQq1 1 0.784314 rgBT /Overlock 10 2004, 16, 609-617.	0.4	36
12	Physical and mechanical properties of the repaired sandstone ashlars in the facing masonry of the Charles Bridge in Prague (Czech Republic) and an analytical study for the causes of its rapid decay. <i>Environmental Earth Sciences</i> , 2011, 63, 1623-1639.	1.3	31
13	Direct measurement of 3D elastic anisotropy on rocks from the Ivrea zone (Southern Alps, NW Italy). <i>Tectonophysics</i> , 2003, 370, 31-47.	0.9	30
14	Diagnosing decay: the value of medical analogy in understanding the weathering of building stones. <i>Geological Society Special Publication</i> , 2007, 271, 1-8.	0.8	28
15	Hierarchical porosity of bentonite-based buffer and its modification due to increased temperature and hydration. <i>Applied Clay Science</i> , 2010, 47, 163-170.	2.6	28
16	THMC-testing of three expandable clays of potential use in HLW repositories. <i>Applied Clay Science</i> , 2011, 52, 419-427.	2.6	28
17	The effect of rock fabric on P-wave velocity distribution in amphibolites. <i>Physics of the Earth and Planetary Interiors</i> , 1999, 114, 39-47.	0.7	27
18	Petrographic identification of alkaliâ€™silica reactive aggregates in concrete from 20th century bridges. <i>Construction and Building Materials</i> , 2009, 23, 734-741.	3.2	27

#	ARTICLE	IF	CITATIONS
19	Isotopic composition of salt efflorescence from the sandstone castellated rocks of the Bohemian Cretaceous Basin (Czech Republic). <i>Environmental Geology</i> , 2009, 58, 217-225.	1.2	25
20	Spatial relationships of salt distribution and related physical changes of underlying rocks on naturally weathered sandstone exposures (Bohemian Switzerland National Park, Czech Republic). <i>Environmental Geology</i> , 2007, 52, 409-420.	1.2	24
21	Mineralogical changes in bentonite barrier within Mock-Up-CZ experiment. <i>Applied Clay Science</i> , 2010, 47, 10-15.	2.6	24
22	Microstructures and physical properties of "backfill" clays: comparison of residual and sedimentary montmorillonite clays. <i>Applied Clay Science</i> , 2003, 23, 149-156.	2.6	23
23	Raman spectral characterization of dispersed carbonaceous matter in decorative crystalline limestones. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2009, 73, 404-409.	2.0	23
24	Understanding the Earth scientist's role in the pre-restoration research of monuments: an overview. <i>Geological Society Special Publication</i> , 2007, 271, 9-21.	0.8	22
25	Methodology of analytical study for provenance determination of calcitic, calcite "dolomitic and impure marbles from historical quarries in the Czech Republic. <i>Journal of Cultural Heritage</i> , 2009, 10, 82-93.	1.5	21
26	Sorption of Cesium on smectite-rich clays from the Bohemian Massif (Czech Republic) and their mixtures with sand. <i>Applied Radiation and Isotopes</i> , 2005, 62, 91-96.	0.7	20
27	Elastic Parameters of West Bohemian Granites under Hydrostatic Pressure. <i>Pure and Applied Geophysics</i> , 1998, 151, 631-646.	0.8	19
28	Decay mechanism of indoor porous opuka stone: a case study from the main altar located in the St. Vitus Cathedral, Prague (Czech Republic). <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	19
29	Contribution of clayey "calcareous silicite to the mechanical properties of structural mortared rubble masonry of the medieval Charles Bridge in Prague (Czech Republic). <i>Engineering Geology</i> , 2010, 115, 257-267.	2.9	17
30	Fabric symmetry of low anisotropic rocks inferred from ultrasonic sounding: Implications for the geomechanical models. <i>Tectonophysics</i> , 2007, 431, 83-96.	0.9	16
31	Geomaterials as construction aggregates: a state-of-the-art. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 8831-8845.	1.6	16
32	Pravčice Rock Arch (Bohemian Switzerland National Park, Czech Republic) deterioration due to natural and anthropogenic weathering. <i>Environmental Earth Sciences</i> , 2011, 63, 1861-1878.	1.3	15
33	Raw materials associated with extractive industry: An overview. <i>Resources Policy</i> , 2018, 59, 1-6.	4.2	15
34	Thermal loading of smectite-rich rocks: Natural processes vs. laboratory experiments. <i>Applied Clay Science</i> , 2005, 29, 215-223.	2.6	14
35	Acoustic emission monitoring of crack formation during alkali silica reactivity accelerated mortar bar test. <i>Engineering Geology</i> , 2017, 220, 175-182.	2.9	14
36	The influence of temperature and hydration on the sorption properties of bentonite. <i>Journal of Environmental Radioactivity</i> , 2008, 99, 415-425.	0.9	13

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37	Natural stones for monuments: their availability for restoration and evaluation. Geological Society Special Publication, 2010, 333, 1-9.	0.8	13
38	Factors affecting alkali-reactivity of quartz-rich metamorphic rocks: Qualitative vs. quantitative microscopy. Engineering Geology, 2015, 187, 1-9.	2.9	13
39	Decorative marbles from the Krkonoše-Jizera Terrane (Bohemian Massif, Czech Republic): provenance criteria. International Journal of Earth Sciences, 2009, 98, 357-366.	0.9	9
40	Determination of pore water composition during long term interaction of bentonite substrates with water media: Comparative study. Applied Clay Science, 2013, 80-81, 69-75.	2.6	9
41	Microscopy and Cathodoluminescence Spectroscopy Characterization of Quartz Exhibiting Different Alkali-Silica Reaction Potential. Microscopy and Microanalysis, 2016, 22, 189-198.	0.2	9
42	Quantitative assessment of alkali silica reaction potential of quartz-rich aggregates: comparison of chemical test and accelerated mortar bar test improved by SEM-PIA. Bulletin of Engineering Geology and the Environment, 2017, 76, 133-144.	1.6	9
43	Macro- and micro-indicators of ASR in concrete pavement. Magazine of Concrete Research, 2011, 63, 553-571.	0.9	8
44	Cathodoluminescence microscopy and petrographic image analysis of aggregates in concrete pavements affected by alkali-silica reaction. Materials Characterization, 2012, 65, 115-125.	1.9	8
45	Factors and processes in deterioration of a sandstone rock form (Pravčická brána Arch, Bohemian) Tj ETQq1 1 0.784314 rgBT /Over 0.3 67	0.3	7
46	Soapstone as a locally used and limited sculptural material in remote area of Northern Moravia (Czech Republic). Environmental Earth Sciences, 2015, 73, 4557-4571.	1.3	7
47	Physical and mechanical properties of selected amphibolite core samples from the Kola Superdeep Borehole KSDB-3. Terra Nova, 2002, 14, 379-387.	0.9	6
48	Effect of low and high fluence on experimentally laser-cleaned sandstone and marlstone tablets in dry and wet conditions. Journal of Cultural Heritage, 2003, 4, 45-49.	1.5	6
49	Evaluation of the alkali-silica reactivity potential of sands. Magazine of Concrete Research, 2009, 61, 645-654.	0.9	6
50	Comparison of quantitative petrographic, stable isotope and cathodoluminescence data for fingerprinting Czech marbles. Environmental Earth Sciences, 2011, 63, 1651-1663.	1.3	5
51	Evaluation of alkali-silica reaction potential of quartz-rich rocks by alkaline etching of polished rock sections. Environmental Earth Sciences, 2016, 75, 1.	1.3	5
52	Recovery of Some Critical Raw Materials from Processing Waste of Feldspar Ore Related to Hydrothermally Altered Granite: Laboratory-Scale Beneficiation. Minerals (Basel, Switzerland), 2021, 11, 455.	0.8	5
53	Correlation of field seismic refraction data with 3-D laboratory ultrasonic sounding data during exploration of a dimension stone deposit. Journal of Applied Geophysics, 2004, 56, 59-72.	0.9	4
54	Mineralogical and geochemical (stable C and O isotopes) variability of marbles from the Moldanubian Zone (Bohemian Massif, Czech Republic): implications for provenance studies. Environmental Earth Sciences, 2017, 76, 1.	1.3	4

#	ARTICLE	IF	CITATIONS
55	Devonian micritic limestones used in the historic production of Prague hydraulic lime (â€œpasta di Tj ETQq1 1 0.784314 rgBT /Overlook Construccion, 2015, 65, e060.	0.2	4
56	Compositional characteristics and experimental burning of selected Lower Palaeozoic limestones from the Prague Basin (Barrandian area, Czech Republic) suitable for the production of natural hydraulic lime. Bulletin of Engineering Geology and the Environment, 2017, 76, 21-37.	1.6	3
57	Determination of Source Areas of Natural Stones: A Methodology Approach Applied to Impure Crystalline Limestones. , 2010, , 157-175.		3
58	Special issue on construction aggregates. Bulletin of Engineering Geology and the Environment, 2021, 80, 8825-8829.	1.6	3
59	Non-linearity in multidirectional P-wave velocity: confining pressure behaviour based on real 3D laboratory measurements, and its mathematical approximation. Geological Society Special Publication, 2005, 240, 323-334.	0.8	2
60	Raman spectra of reduced carbonaceous matter as a tool for determining the provenance of marbles: examples of â€œgraphiticâ€™ marbles from Czech quarries. Geological Society Special Publication, 2010, 333, 175-183.	0.8	2
61	Electronic database of historical natural stones of the Czech Republic: structuring field and laboratory data. Geological Society Special Publication, 2010, 333, 211-217.	0.8	2
62	Experimental evaluation of the influence of saturation media on the mineralogical and physicochemical stability of bentonites. Applied Clay Science, 2013, 86, 1-10.	2.6	2
63	Late Antique marble trade: new insights obtained from stone artefacts from the San Severo complex (Ravenna, Italy). Geological Society Special Publication, 2016, 416, 35-46.	0.8	2
64	Geological features, technological characterization and weathering phenomena of the Miocene Bryozoan and Lithothamnion limestones (central-southern Italy). Italian Journal of Geosciences, 2011, , ,	0.4	0
65	Polished Stone Value of Volcanic Rocks Used as Aggregates: A Case Study from the Bohemian Massif, Czech Republic. , 2015, , 119-122.		0