

# Tiziana Vanorio

## List of Publications by Year in descending order

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Version: 2024-02-01

56  
papers

1,653  
citations

394421

19  
h-index

377865

34  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1644  
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic properties of dry clay mineral aggregates, suspensions and sandstones. <i>Geophysical Journal International</i> , 2003, 155, 319-326.	2.4	282
2	Three-dimensional seismic tomography from P-wave and S-wave microearthquake travel times and rock physics characterization of the Campi Flegrei Caldera. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	137
3	The effect of chemical and physical processes on the acoustic properties of carbonate rocks. <i>The Leading Edge</i> , 2008, 27, 1040-1048.	0.7	117
4	Laboratory measurements of elastic properties of carbonate rocks during injection of reactive CO <sub>2</sub> -saturated water. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	112
5	Laboratory measurements of porosity, permeability, resistivity, and velocity on Fontainebleau sandstones. <i>Geophysics</i> , 2010, 75, E191-E204.	2.6	106
6	Rock physics analysis and time-lapse rock imaging of geochemical effects due to the injection of CO <sub>2</sub> into reservoir rocks. <i>Geophysics</i> , 2011, 76, O23-O33.	2.6	76
7	Ultrasonic velocity measurements in volcanic rocks: correlation with microtexture. <i>Geophysical Journal International</i> , 2002, 149, 22-36.	2.4	70
8	Effects of changes in rock microstructures on permeability: 3D printing investigation. <i>Geophysical Research Letters</i> , 2016, 43, 7494-7502.	4.0	70
9	Texture analysis of a turbostratically disordered Ca-montmorillonite. <i>American Mineralogist</i> , 2010, 95, 98-103.	1.9	57
10	A multiscale methodology for the analysis of velocity anisotropy in organic-rich shale. <i>Geophysics</i> , 2015, 80, C73-C88.	2.6	56
11	Rock physics of fibrous rocks akin to Roman concrete explains uplifts at Campi Flegrei Caldera. <i>Science</i> , 2015, 349, 617-621.	12.6	52
12	Pyrolysis-induced P-wave velocity anisotropy in organic-rich shales. <i>Geophysics</i> , 2014, 79, D41-D53.	2.6	44
13	Laboratory measurements of the acoustic and transport properties of carbonate rocks and their link with the amount of microcrystalline matrix. <i>Geophysics</i> , 2011, 76, E105-E115.	2.6	43
14	Evolution of permeability and microstructure of tight carbonates due to numerical simulation of calcite dissolution. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 4460-4474.	3.4	37
15	The rock physics basis for 4D seismic monitoring of CO <sub>2</sub> fate: Are we there yet?. <i>The Leading Edge</i> , 2010, 29, 156-162.	0.7	34
16	Recent advances in time-lapse, laboratory rock physics for the characterization and monitoring of fluid-rock interactions. <i>Geophysics</i> , 2015, 80, WA49-WA59.	2.6	33
17	On the evolution of the elastic properties of organic-rich shale upon pyrolysis-induced thermal maturation. <i>Geophysics</i> , 2016, 81, D263-D281.	2.6	33
18	The effect of micrite content on the acoustic velocity of carbonate rocks. <i>Geophysics</i> , 2015, 80, L45-L55.	2.6	30

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19	The influence of pore fluids and frequency on apparent effective stress behavior of seismic velocities. <i>Geophysics</i> , 2010, 75, N1-N7.	2.6	29
20	Seismic images and rock properties of the very shallow structure of Campi Flegrei caldera (southern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.0	19
21	Time-lapse acoustic, transport, and NMR measurements to characterize microstructural changes of carbonate rocks during injection of CO <sub>2</sub> -rich water. <i>Geophysics</i> , 2012, 77, WA169-WA179.	2.6	19
22	The rock physics and geochemistry of carbonates exposed to reactive brines. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 1497-1513.	3.4	18
23	Porosity-permeability relationship in dual-porosity carbonate analogs. <i>Geophysics</i> , 2017, 82, MR65-MR74.	2.6	17
24	Chemomechanical evolution of pore space in carbonate microstructures upon dissolution: Linking pore geometry to bulk elasticity. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 6878-6894.	3.4	16
25	What laboratory-induced dissolution trends tell us about natural diagenetic trends of carbonate rocks. <i>Geological Society Special Publication</i> , 2015, 406, 311-329.	1.3	16
26	Monitoring the changes in the microstructure and the elastic and transport properties of Eagle Ford marl during maturation. <i>Geophysics</i> , 2018, 83, MR263-MR281.	2.6	14
27	Time-lapse characterization of hydrothermal seawater and microbial interactions with basaltic tephra at Surtsey Volcano. <i>Scientific Drilling</i> , 0, 20, 51-58.	0.6	14
28	The effect of mineral composition and pressure on carbonate rocks. , 2007, , .		11
29	Effects of Carbon Dioxide Injection in Reactive Carbonates: Computational Rock Physics Basis for Time-Lapse Monitoring. , 2011, , .		11
30	“œTo fluid” substitute or not to fluid” substitute” How pore shape and chemical processes affect Gassmann's predictability. , 2007, , .		10
31	A scale-consistent method for imaging porosity and micrite in dual-porosity carbonate rocks. <i>Geophysics</i> , 2019, 84, MR115-MR127.	2.6	7
32	Modeling of elasticity effects of sandstone compaction using coated inclusions. <i>Geophysics</i> , 2011, 76, E69-E79.	2.6	6
33	The Campi Flegrei Blind Test: Evaluating the Imaging Capability of Local Earthquake Tomography in a Volcanic Area. <i>International Journal of Geophysics</i> , 2012, 2012, 1-37.	1.1	6
34	Monitoring the changes of rock properties in a micritic limestone upon injection of a CO <sub>2</sub> rich fluid. , 2010, , .		6
35	Velocity anisotropy variation in organic-rich shale as a function of confining pressure. , 2014, , .		5
36	Permeability Evolution of a Cemented Volcanic Ash During Carbonation and CO <sub>2</sub> Depressurization. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 8409-8427.	3.4	5

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37	Data-driven elastic modeling of organic-rich marl during maturation. <i>Geophysics</i> , 2020, 85, MR11-MR23.	2.6	5
38	Data-driven elastic modeling of organic-rich marl during maturation. , 2018, , .		4
39	Pyrolysis-Induced Evolution of the Elastic and Transport Properties of the Barnett Shale. , 2015, , .		3
40	Elastic Softening of Limestone Upon Decarbonation With Episodic CO <sub>2</sub> Release. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 7404-7420.	3.4	3
41	Dynamic Evolution of Permeability in Response to Chemo-Mechanical Compaction. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 11204-11217.	3.4	3
42	Vp/Vs ratio in gas-pressured saturated sandstones. , 2006, , .		3
43	Elastic anisotropy of shales: The roles of crack alignment and compliance ratio. <i>Geophysics</i> , 2022, 87, A13-A17.	2.6	3
44	How micrite content affects the transport, seismic, and reactive properties of carbonate rocks. Implications for 4D seismic.. , 2009, , .		2
45	Evolution of mineral fabrics and microstructures in Kimmeridge Shale upon kerogen maturation. , 2013, , .		2
46	Elastic anisotropy, maturity, and maceral microstructure in organic-rich shales. , 2008, , .		2
47	Challenges and Recent Advances in Rock Physics. , 2018, , .		2
48	Monitoring chemo-mechanical deformation through acoustic emission experiments. , 2020, , .		1
49	Quantifying Crack Properties of Source Rocks from Elastic Stress Sensitivity. , 2021, , .		1
50	Monitoring the changes in elastic and transport properties of Eagle Ford marl upon maturation. , 2018, , .		1
51	Rock physics and experimentation in decarbonizing the future. <i>The Leading Edge</i> , 2021, 40, 245-253.	0.7	0
52	Rock physics modeling of crack-induced stress sensitivity. , 2021, , .		0
53	Acoustic velocity and permeability of acidized and propped fractures in shale. <i>Geophysics</i> , 2022, 87, MR13-MR24.	2.6	0
54	Avoiding biases of geometric crack representations in rocks. , 2021, , .		0

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55	Rock physics template of organic-rich marl incorporating the variations in maturity, kerogen content, lithology, and fluid saturation. , 2019, , .		0
56	Assessing Crackâ€Induced Compliance in Low Porosity Rocks Damaged by Thermoâ€Hydroâ€Chemoâ€Mechanical Processes. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB023217.	3.4	0