

# Gerardo Vitale

## List of Publications by Year in descending order

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44  
papers

1,247  
citations

331670

21  
h-index

377865

34  
g-index

44  
all docs

44  
docs citations

44  
times ranked

1485  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neutron Diffraction and Computational Study of Zeolite NaX: Influence of $\text{Si}^{III}$ Cations on Its Complex with Benzene. <i>Journal of Physical Chemistry B</i> , 1997, 101, 4559-4564.	2.6	164
2	Polyethylenimine-functionalized pyroxene nanoparticles embedded on Diatomite for adsorptive removal of dye from textile wastewater in a fixed-bed column. <i>Chemical Engineering Journal</i> , 2017, 320, 389-404.	12.7	90
3	Comparing kinetics and mechanism of adsorption and thermo-oxidative decomposition of Athabasca asphaltenes onto $\text{TiO}_2$ , $\text{ZrO}_2$ , and $\text{CeO}_2$ nanoparticles. <i>Applied Catalysis A: General</i> , 2014, 484, 161-171.	4.3	84
4	Preparation of NiMoS nanoparticles for hydrotreating. <i>Catalysis Today</i> , 2015, 250, 21-27.	4.4	52
5	Maghemite nanosorbents for methylene blue adsorption and subsequent catalytic thermo-oxidative decomposition: Computational modeling and thermodynamics studies. <i>Journal of Colloid and Interface Science</i> , 2016, 461, 396-408.	9.4	52
6	Silica-alumina composite as an effective adsorbent for the removal of metformin from water. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 102994.	6.7	51
7	Synthesis of nanocrystalline molybdenum carbide materials and their characterization. <i>Catalysis Today</i> , 2015, 250, 123-133.	4.4	50
8	Adsorptive removal of dyes from synthetic and real textile wastewater using magnetic iron oxide nanoparticles: Thermodynamic and mechanistic insights. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 1965-1974.	1.7	47
9	One-pot preparation and characterization of bifunctional Ni-containing ZSM-5 catalysts. <i>Applied Catalysis A: General</i> , 2013, 452, 75-87.	4.3	43
10	The effect of the nanosize on surface properties of NiO nanoparticles for the adsorption of Quinolin-65. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6839-6849.	2.8	43
11	Nanopyroxene-Based Nanofluids for Enhanced Oil Recovery in Sandstone Cores at Reservoir Temperature. <i>Energy &amp; Fuels</i> , 2019, 33, 877-890.	5.1	43
12	Fixed-bed column studies of total organic carbon removal from industrial wastewater by use of diatomite decorated with polyethylenimine-functionalized pyroxene nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2018, 513, 28-42.	9.4	40
13	Preparation and characterization of polyethylenimine-functionalized pyroxene nanoparticles and its application in wastewater treatment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017, 525, 20-30.	4.7	31
14	X-ray Photoelectron Spectroscopy Analysis of Hydrotreated Athabasca Asphaltenes. <i>Energy &amp; Fuels</i> , 2017, 31, 10706-10717.	5.1	31
15	Effects of the size of NiO nanoparticles on the catalytic oxidation of Quinolin-65 as an asphaltene model compound. <i>Fuel</i> , 2017, 207, 423-437.	6.4	27
16	Nanosize effects of NiO nanosorbents on adsorption and catalytic thermo-oxidative decomposition of vacuum residue asphaltenes. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 1864-1874.	1.7	25
17	Effect of nanosized and surface-structural-modified nano-pyroxene on adsorption of violanthrone-79. <i>RSC Advances</i> , 2016, 6, 64482-64493.	3.6	25
18	Fe-pillared clays: a combination of zeolite shape selectivity and iron activity in the CO hydrogenation reaction. <i>Journal of Molecular Catalysis A</i> , 1996, 107, 175-183.	4.8	24

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19	Localization of Adsorbed Cyclohexane in the Acid Form of Zeolite Y. A Powder Neutron Diffraction and Computational Study. <i>Journal of Physical Chemistry B</i> , 1997, 101, 9886-9891.	2.6	24
20	In situ time-resolved X-ray diffraction study of the synthesis of Mo <sub>2</sub> C with different carburization agents. <i>Canadian Journal of Chemistry</i> , 2013, 91, 573-582.	1.1	22
21	Catalytic oxy-cracking of petroleum coke on copper silicate for production of humic acids. <i>Applied Catalysis B: Environmental</i> , 2020, 264, 118472.	20.2	22
22	Synergetic effects of cerium and nickel in Ce-Ni-MFI catalysts on low-temperature water-gas shift reaction. <i>Fuel</i> , 2019, 237, 361-372.	6.4	21
23	Effect of Al content on phase transitions of zeolite MEL. <i>Microporous and Mesoporous Materials</i> , 2009, 121, 26-33.	4.4	19
24	Hydrotalcite type materials as catalyst precursors for the Catalytic Steam Cracking of toluene. <i>Fuel</i> , 2015, 154, 71-79.	6.4	19
25	Dispersed Ni-Doped Aegirine Nanocatalysts for the Selective Hydrogenation of Olefinic Molecules. <i>ACS Applied Nano Materials</i> , 2018, 1, 6269-6280.	5.0	19
26	Experimental and computational modeling studies on silica-embedded NiO/MgO nanoparticles for adsorptive removal of organic pollutants from wastewater. <i>RSC Advances</i> , 2017, 7, 14021-14038.	3.6	18
27	Nanopyroxene Grafting with Î²-Cyclodextrin Monomer for Wastewater Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 42393-42407.	8.0	18
28	Magnetic Nanostructured White Graphene for Oil Spill and Water Cleaning. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 13065-13076.	3.7	18
29	Metformin Removal from Water Using Fixed-bed Column of Silica-Alumina Composite. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 597, 124814.	4.7	16
30	Production of Highly Dispersed Ni within Nickel Silicate Materials with the MFI Structure for the Selective Hydrogenation of Olefins. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 8597-8611.	3.7	14
31	New Insights into the Kinetics of Structural Transformation and Hydrogenation Activity of Nano-crystalline Molybdenum Carbide. <i>Catalysis Letters</i> , 2018, 148, 904-923.	2.6	13
32	Enhanced thermal conductivity and reduced viscosity of aegirine-based VR/VGO nanofluids for enhanced thermal oil recovery application. <i>Journal of Petroleum Science and Engineering</i> , 2020, 185, 106569.	4.2	13
33	Catalytic steam gasification of n-C5 asphaltenes by kaolin-based catalysts in a fixed-bed reactor. <i>Applied Catalysis A: General</i> , 2015, 507, 149-161.	4.3	12
34	Development and characterization of novel combinations of Ce-Ni-MFI solids for water gas shift reaction. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 140-151.	1.7	11
35	Synthesis and characterization of a novel nickel pillared "clay catalyst: In-situ carbon nanotube "clay hybrid nanofiller from Ni-PILC. <i>Applied Clay Science</i> , 2021, 205, 106064.	5.2	11
36	Mechanism of Hierarchical Porosity Development in Hexagonal Boron Nitride Nanocrystalline Microstructures for Biomedical and Industrial Applications. <i>ACS Applied Nano Materials</i> , 2018, 1, 4491-4501.	5.0	9

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37	Size Effects of NiO Nanoparticles on the Competitive Adsorption of Quinolin-65 and Violanthrone-79: Implications for Oil Upgrading and Recovery. ACS Applied Nano Materials, 2020, 3, 5311-5326.	5.0	8
38	Formation of $\gamma$ -Mo <sub>2</sub> C below 600 °C using MoO <sub>3</sub> nanoparticles as precursor. Journal of Catalysis, 2015, 332, 83-94.	6.2	7
39	Catalytic Steam Gasification of Athabasca Visbroken Residue by Ni/Kaolin-Based Catalysts in a Fixed-Bed Reactor. Energy & Fuels, 2017, 31, 7396-7404.	5.1	4
40	Molybdenum sulfide nanoparticles prepared using starch as capping agent. Redispersion and activity in Athabasca Bitumen hydrotreating. Catalysis Today, 2021, 377, 38-49.	4.4	4
41	Molybdenum carbide nanocatalyst for activation of water and hydrogen towards upgrading of low-quality hydrocarbons. Fuel, 2022, 322, 124291.	6.4	2
42	Naturally derived pyroxene nanomaterials: an ore for wide applications. , 2020, , 731-774.		1
43	O-exchange evidenced in Ce-Ni-MFI catalysts during water gas shift reaction: Use of isotopic water (50% H <sub>2</sub> <sup>18</sup> O - 50% H <sub>2</sub> <sup>16</sup> O). Applied Catalysis B: Environmental, 2020, 263, 118365.	20.2	0
44	Reply to comments on: Synthesis and characterization of a novel nickel pillared-clay catalyst: In-situ carbon nanotube/clay hybrid nanofiller from Ni-PILC. Applied Clay Science, 2021, 213, 106268.	5.2	0