

Domenico Caputo

List of Publications by Year in descending order

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113
papers

2,914
citations

172386

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197736

49
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117
all docs

117
docs citations

117
times ranked

3643
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Suitability and Sustainability of Anti-Graffiti Treatments on Natural Stone Materials. Sustainability, 2022, 14, 575. | 1.6 | 1 |
| 2 | Zeolite-based monoliths for water softening by ion exchange/precipitation process. Scientific Reports, 2022, 12, 3686. | 1.6 | 12 |
| 3 | The Improvement of Durability of Reinforced Concretes for Sustainable Structures: A Review on Different Approaches. Materials, 2022, 15, 2728. | 1.3 | 15 |
| 4 | Mineralogical and Technological Characterization of Zeolites from Basin and Range as Pozzolanic Addition of Cement. Materials, 2022, 15, 2684. | 1.3 | 4 |
| 5 | Ethylene adsorption onto thermally treated AgA-Zeolite. Applied Surface Science, 2021, 542, 148748. | 3.1 | 8 |
| 6 | Strategies for the valorization of soil waste by geopolymer production: An overview. Journal of Cleaner Production, 2021, 288, 125646. | 4.6 | 31 |
| 7 | Sustainable Management of Autoclaved Aerated Concrete Wastes in Gypsum Composites. Sustainability, 2021, 13, 3961. | 1.6 | 5 |
| 8 | Mechanically Coherent Zeolite 13X/Chitosan Aerogel Beads for Effective CO ₂ Capture. ACS Applied Materials & Interfaces, 2021, 13, 20728-20734. | 4.0 | 27 |
| 9 | Optimization of the production process of BZTâ€“BCT solâ€“gel thin films obtained from a highly stable and green precursor solution. Materials and Manufacturing Processes, 2021, 36, 1642-1649. | 2.7 | 3 |
| 10 | Crushed Bricks: Demolition Waste as a Sustainable Raw Material for Geopolymers. Sustainability, 2021, 13, 7572. | 1.6 | 8 |
| 11 | Effect of carbonaceous fillers on adsorption behavior of multifunctional diatomite-based foams for wastewater treatment. Chemosphere, 2021, 281, 130999. | 4.2 | 11 |
| 12 | Probing the use of Ag-modified SBA-15 as ethylene scavenger. Journal of Sol-Gel Science and Technology, 2021, 100, 352. | 1.1 | 1 |
| 13 | Assessing lead-free barium zirconate titanate-barium calcium titanate thin films ferroelectric properties in planar configuration. , 2021, , . | | 0 |
| 14 | Synthesis and Characterization of Activated Carbon Foam from Polymerization of Furfuryl Alcohol Activated by Zinc and Copper Chlorides. Journal of Carbon Research, 2020, 6, 45. | 1.4 | 6 |
| 15 | Zeolite-Rich Composite Materials for Environmental Remediation: Arsenic Removal from Water. Applied Sciences (Switzerland), 2020, 10, 6939. | 1.3 | 22 |
| 16 | Process strategy to fabricate a hierarchical porosity gradient in diatomite-based foams by 3D printing. Scientific Reports, 2020, 10, 612. | 1.6 | 25 |
| 17 | Synthesis of amino-functionalized MIL-101(Cr) MOF for hexavalent chromium adsorption from aqueous solutions. Environmental Nanotechnology, Monitoring and Management, 2020, 14, 100300. | 1.7 | 21 |
| 18 | MOF-Based Adsorbents for Atmospheric Emission Control: A Review. Processes, 2020, 8, 613. | 1.3 | 22 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Nanoporous Materials as H ₂ S Adsorbents for Biogas Purification: a Review. Separation and Purification Reviews, 2019, 48, 78-89. | 2.8 | 64 |
| 20 | An insight into clustering of halogenated anesthetics molecules in metal-organic frameworks: Evidence of adsorbate self-association in micropores. Journal of Colloid and Interface Science, 2019, 554, 463-467. | 5.0 | 2 |
| 21 | 0.5(BaZr _{0.2} Ti _{0.8} O ₃)-0.5(Ba _{0.7} Ca _{0.3} O ₃) thin films deriving from green sol-gel routes. , 2019, , . | | 1 |
| 22 | Chromium-based MIL-101 metal organic framework as a fully regenerable D4 adsorbent for biogas purification. Renewable Energy, 2019, 138, 230-235. | 4.3 | 18 |
| 23 | Reuse of mining waste as aggregates in fly ash-based geopolymers. Journal of Cleaner Production, 2019, 220, 65-73. | 4.6 | 81 |
| 24 | Pozzolanic Activity of Zeolites: The Role of Si/Al Ratio. Materials, 2019, 12, 4231. | 1.3 | 27 |
| 25 | Design of sustainable porous materials based on 3D-structured silica exoskeletons, Diatomite: Chemico-physical and functional properties. Materials and Design, 2018, 145, 196-204. | 3.3 | 33 |
| 26 | Use of a Metal Organic Framework for the Adsorptive Removal of Gaseous HCl: A New Approach for a Challenging Task. ACS Applied Materials & Interfaces, 2018, 10, 14271-14275. | 4.0 | 18 |
| 27 | Me-ZSM-5 monolith foams for the NH ₃ -SCR of NO. Catalysis Today, 2018, 304, 112-118. | 2.2 | 19 |
| 28 | Reinventing rice husk ash: derived NaX zeolite as a high-performing CO ₂ adsorbent. International Journal of Environmental Science and Technology, 2018, 15, 1543-1550. | 1.8 | 17 |
| 29 | Hemp reinforcement in lightweight geopolymers. Journal of Composite Materials, 2018, 52, 2313-2320. | 1.2 | 18 |
| 30 | Evaluation of bio-degummed hemp fibers as reinforcement in gypsum plaster. Composites Part B: Engineering, 2018, 138, 149-156. | 5.9 | 44 |
| 31 | Molecular interactions of CO ₂ with the CuBTC metal organic framework: An FTIR study based on two-dimensional correlation spectroscopy. Journal of Molecular Structure, 2018, 1166, 326-333. | 1.8 | 25 |
| 32 | Binders alternative to Portland cement and waste management for sustainable constructionâ€”part 1. Journal of Applied Biomaterials and Functional Materials, 2018, 16, 186-202. | 0.7 | 57 |
| 33 | Thermo-mechanical behaviour of hemp fibers-reinforced gypsum plasters. Construction and Building Materials, 2018, 185, 256-263. | 3.2 | 42 |
| 34 | Binders alternative to Portland cement and waste management for sustainable construction â€” Part 2. Journal of Applied Biomaterials and Functional Materials, 2018, 16, 207-221. | 0.7 | 45 |
| 35 | Mechanical and chemical properties of composite materials made of dredged sediments in a fly-ash based geopolymer. Journal of Environmental Management, 2017, 191, 1-7. | 3.8 | 71 |
| 36 | Peculiarities of vanillin release from amino-functionalized mesoporous silica embedded into biodegradable composites. European Polymer Journal, 2017, 89, 88-100. | 2.6 | 29 |

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| 37 | Hybrid geopolymeric foams with diatomite addition: Effect on chemico-physical properties. Journal of Cellular Plastics, 2017, 53, 525-536. | 1.2 | 27 |
| 38 | The role of materials and products characterization in the additive manufacturing industry. , 2017, , . | | 3 |
| 39 | Thermal cycling stability of fly ash based geopolymer mortars. Composites Part B: Engineering, 2017, 129, 11-17. | 5.9 | 82 |
| 40 | Xanthan and Î²-carrageenan based alkaline hydrogels as electrolytes for Al/air batteries. Carbohydrate Polymers, 2017, 157, 122-127. | 5.1 | 86 |
| 41 | Dielectric Properties of Monoclinic (Ba, Sr)-Celsian Obtained by Thermal Treatment of (Ba, Sr) TiO ₃ . Journal of Applied Physics, 2017, 121, 044101. | 0.2 | 1 |
| 42 | Amino-Functionalized, Chromium-Based Metal Organic Framework as a Potential High Performance Adsorbent for Hydrogen Chloride. Advanced Science Letters, 2017, 23, 6010-6011. | 0.2 | 1 |
| 43 | Green Chemical Routes for the Synthesis of Lead-Free Ferroelectric Material 0.5Ba(Zr _{0.2} Ti _{0.8})O ₃ ·0.5(Ba _{0.7} Ca _{0.3})TiO ₃ . Advanced Science Letters, 2017, 23, 6015-6019. | 0.2 | 5 |
| 44 | Composites for Bone Tissue Engineering Based on Antibacterial Mesoporous Bioactive Glassy Oxides. Advanced Science Letters, 2017, 23, 6023-6025. | 0.2 | 1 |
| 45 | Selected Peer-Reviewed Articles from the VI Workshop on Oxide-Based Materials – Perspectives in Material Science and Technological Applications (OXIDE 2016), Naples, Italy, 21-24 September 2016. Advanced Science Letters, 2017, 23, 5819-5820. | 0.2 | 0 |
| 46 | Iron-activated carbon nanocomposite: synthesis, characterization and application for lead removal from aqueous solution. RSC Advances, 2016, 6, 42845-42853. | 1.7 | 22 |
| 47 | Optimal synthesis of amino-functionalized mesoporous silicas for the adsorption of heavy metal ions. Microporous and Mesoporous Materials, 2016, 236, 250-259. | 2.2 | 49 |
| 48 | Adsorption Behavior of Halogenated Anesthetic and Water Vapor on Cr-Based MOF (MIL-101) Adsorbent. Part I. Equilibrium and Breakthrough Characterizations. Chemie-Ingenieur-Technik, 2016, 88, 1730-1738. | 0.4 | 13 |
| 49 | Adsorption Behavior of Halogenated Anesthetic and Water Vapor on Cr-Based MOF (MIL-101) Adsorbent. Part II. Multiple-Cycle Breakthrough Tests. Chemie-Ingenieur-Technik, 2016, 88, 1739-1745. | 0.4 | 10 |
| 50 | Organic-inorganic hybrid foams with diatomite addition: Effect on functional properties. AIP Conference Proceedings, 2016, , . | 0.3 | 2 |
| 51 | Sr-, Zn- and Cd-exchanged zeolitic materials as water vapor adsorbents for thermal energy storage applications. Applied Thermal Engineering, 2016, 106, 1217-1224. | 3.0 | 29 |
| 52 | Physical and mechanical characterization of sun-dried bricks. A case history: the galeb of Kebili. Materials and Structures/Materiaux Et Constructions, 2016, 49, 159-165. | 1.3 | 3 |
| 53 | MFI and FAU-Type Zeolites as Trapping Materials for Light Hydrocarbons Emission Control at Low Partial Pressure and High Temperature. Journal of Chemistry, 2015, 2015, 1-11. | 0.9 | 12 |
| 54 | Modeling the performances of a CO ₂ adsorbent based on polyethylenimine-functionalized macro-/mesoporous silica monoliths. Microporous and Mesoporous Materials, 2015, 215, 1-7. | 2.2 | 29 |

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| 55 | Synergistic effect of vegetable protein and silicon addition on geopolymeric foams properties. Journal of Materials Science, 2015, 50, 2459-2466. | 1.7 | 48 |
| 56 | Fiber-reinforced lime-based mortars: Effect of zeolite addition. Construction and Building Materials, 2015, 77, 455-460. | 3.2 | 30 |
| 57 | Preparation and Photocatalysis of Schlumbergera bridgesii-Like CdS Modified One-Dimensional TiO ₂ Nanowires on Zeolite. Journal of Materials Engineering and Performance, 2015, 24, 700-708. | 1.2 | 4 |
| 58 | Mechanical behavior of plaster reinforced with abaca fibers. Construction and Building Materials, 2015, 99, 184-191. | 3.2 | 68 |
| 59 | Zeolitized tuff in environmental friendly production of cementitious material: Chemical and mechanical characterization. Construction and Building Materials, 2015, 99, 272-278. | 3.2 | 22 |
| 60 | Modeling the Adsorption of CO ₂ /N ₂ Mixtures on Siliceous Nanoporous Materials. Science of Advanced Materials, 2015, 7, 258-263. | 0.1 | 3 |
| 61 | Cellular morphology of organic-inorganic hybrid foams based on alkali alumino-silicate matrix. , 2014, , . | | 0 |
| 62 | Mesoporous silica as carrier of antioxidant for food packaging materials. , 2014, , . | | 0 |
| 63 | CO ₂ Adsorption by Functionalized Nanoporous Materials: A Review. Journal of Nanoscience and Nanotechnology, 2014, 14, 1811-1822. | 0.9 | 101 |
| 64 | CO ₂ Adsorption on Polyethylenimine-Functionalized SBA-15 Mesoporous Silica: Isotherms and Modeling. Journal of Chemical & Engineering Data, 2014, 59, 896-902. | 1.0 | 73 |
| 65 | A chromium-based metal organic framework as a potential high performance adsorbent for anaesthetic vapours. RSC Advances, 2014, 4, 49478-49484. | 1.7 | 20 |
| 66 | Thermo-elastic behavior and P/T phase stability of TlAlSiO ₄ (ABW). Microporous and Mesoporous Materials, 2014, 197, 262-267. | 2.2 | 3 |
| 67 | Ion exchange kinetics and thermodynamics of hydrosodalite, a narrow pore zeolite. Journal of Porous Materials, 2014, 21, 643-651. | 1.3 | 11 |
| 68 | Modeling Hydrogen Sulfide Adsorption on Chromium-Based MIL-101 Metal Organic Framework. Science of Advanced Materials, 2014, 6, 164-170. | 0.1 | 20 |
| 69 | Silver-containing mesoporous bioactive glass with improved antibacterial properties. Journal of Materials Science: Materials in Medicine, 2013, 24, 2129-2135. | 1.7 | 71 |
| 70 | Entrapping of Cs and Sr in heat-treated zeolite matrices. Journal of Nuclear Materials, 2013, 435, 196-201. | 1.3 | 19 |
| 71 | Recycled plastic aggregate in mortars composition: Effect on physical and mechanical properties. Materials & Design, 2013, 52, 916-922. | 5.1 | 153 |
| 72 | Natural zeolites for heavy metals removal from aqueous solutions: Modeling of the fixed bed Ba ²⁺ /Na ⁺ ion-exchange process using a mixed phillipsite/chabazite-rich tuff. Chemical Engineering Journal, 2013, 219, 37-42. | 6.6 | 44 |

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| 73 | Confined mesoporous silica membranes for albumin zero-order release. <i>Microporous and Mesoporous Materials</i> , 2013, 167, 71-75. | 2.2 | 14 |
| 74 | ±-Tocopherol release from active polymer films loaded with functionalized SBA-15 mesoporous silica. <i>Microporous and Mesoporous Materials</i> , 2013, 167, 10-15. | 2.2 | 39 |
| 75 | LTA Zeolite as Pozzolanic Addition for Hydraulic Mortars: An Effective, Promising Use. <i>Advanced Porous Materials</i> , 2013, 1, 129-135. | 0.3 | 8 |
| 76 | Solidification of Cd-bearing zeolitic tuff by reaction with lime. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2012, 47, 228-236. | 0.9 | 0 |
| 77 | Modeling carbon dioxide adsorption on polyethylenimine-functionalized TUD-1 mesoporous silica. <i>Journal of Colloid and Interface Science</i> , 2012, 367, 348-354. | 5.0 | 36 |
| 78 | Enhanced visible-light-responsive photocatalytic property of CdS and PbS sensitized ZnO nanocomposite photocatalysts. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 570-574. | 1.7 | 25 |
| 79 | Synthesis and characterization of a microporous copper triazolate as a water vapor adsorbent. <i>Microporous and Mesoporous Materials</i> , 2011, 145, 74-79. | 2.2 | 9 |
| 80 | Modeling Carbon Dioxide Adsorption on Microporous Substrates: Comparison between Cu-BTC Metal-Organic Framework and 13X Zeolitic Molecular Sieve. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 3655-3661. | 1.0 | 134 |
| 81 | Adsorption and diffusion of propane and propylene in Ag-impregnated MCM-41. <i>Adsorption</i> , 2008, 14, 241-246. | 1.4 | 28 |
| 82 | Some advances in understanding the pozzolanic activity of zeolites: The effect of zeolite structure. <i>Cement and Concrete Composites</i> , 2008, 30, 455-462. | 4.6 | 103 |
| 83 | Safe trapping of Cs in heat-treated zeolite matrices. Part 2. <i>Studies in Surface Science and Catalysis</i> , 2008, 174, 537-540. | 1.5 | 9 |
| 84 | Preparation and characterization of polyethylenimine-modified mesoporous silicas as CO ₂ sorbents. <i>Studies in Surface Science and Catalysis</i> , 2007, 170, 1938-1943. | 1.5 | 24 |
| 85 | Modeling of water and ethanol adsorption data on a commercial zeolite-rich tuff and prediction of the relevant binary isotherms. <i>Microporous and Mesoporous Materials</i> , 2007, 105, 260-267. | 2.2 | 28 |
| 86 | Experiments and data processing of ion exchange equilibria involving Italian natural zeolites: a review. <i>Microporous and Mesoporous Materials</i> , 2007, 105, 222-231. | 2.2 | 83 |
| 87 | Chromium removal from water using LTA zeolites: Effect of pH. <i>Journal of Colloid and Interface Science</i> , 2007, 313, 574-578. | 5.0 | 71 |
| 88 | A thermodynamic model of chabazite selectivity for Pb ²⁺ . <i>Studies in Surface Science and Catalysis</i> , 2005, 155, 339-346. | 1.5 | 2 |
| 89 | Kinetics of the Ba ²⁺ /Na ⁺ exchange on a mixed phillipsite-chabazite-rich tuff. <i>Studies in Surface Science and Catalysis</i> , 2005, 155, 451-459. | 1.5 | 0 |
| 90 | Synthesis of mesoporous materials for carbon dioxide sequestration. <i>Microporous and Mesoporous Materials</i> , 2005, 81, 139-147. | 2.2 | 53 |

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| 91 | Data processing of cation exchange equilibria in zeolites: a modified approach. <i>Studies in Surface Science and Catalysis</i> , 2005, 155, 129-140. | 1.5 | 11 |
| 92 | Zeolite-Based Adsorbers for Reducing Light Hydrocarbon Emissions from Engine Exhaust. <i>Separation Science and Technology</i> , 2005, 39, 1547-1561. | 1.3 | 7 |
| 93 | Permanent and safe storage of Ba ²⁺ in hardened phillipsite-rich tuff/cement pastes. <i>Applied Clay Science</i> , 2005, 28, 167-173. | 2.6 | 15 |
| 94 | Ion exchange equilibria in a synthetic merlinoite. <i>Studies in Surface Science and Catalysis</i> , 2004, 154, 1920-1928. | 1.5 | 6 |
| 95 | Reduction of hydrocarbon emission from engine exhaust using zeolitic adsorbers. <i>Studies in Surface Science and Catalysis</i> , 2004, , 2034-2040. | 1.5 | 3 |
| 96 | Safe trapping of Cs in heat-treated zeolite matrices. <i>Journal of Nuclear Materials</i> , 2004, 324, 183-188. | 1.3 | 55 |
| 97 | The Double Selectivity Model for the Description of Ion-Exchange Equilibria in Zeolites. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 1093-1097. | 1.8 | 16 |
| 98 | Diffusion and adsorption of hydrocarbons from automotive engine exhaust in zeolitic adsorbents. <i>Studies in Surface Science and Catalysis</i> , 2002, , 1611-1618. | 1.5 | 0 |
| 99 | Abatement of automotive cold start hydrocarbon emissions. , 2001, , . | | 2 |
| 100 | Adsorption properties of clinoptilolite-rich tuff from Thrace, NE Greece. <i>Studies in Surface Science and Catalysis</i> , 2001, 140, 121-129. | 1.5 | 6 |
| 101 | Fixed-bed ion-exchange process performance of Pb ²⁺ removal from a simulated ceramic wastewater by Neapolitan yellow tuff. <i>Studies in Surface Science and Catalysis</i> , 2001, 140, 111-119. | 1.5 | 1 |
| 102 | Modeling of breakthrough curves in fixed-bed zeolite columns. <i>Studies in Surface Science and Catalysis</i> , 2001, 140, 369-376. | 1.5 | 4 |
| 103 | Synthesis and adsorption properties of iron containing BEA and MOR type zeolites. <i>Studies in Surface Science and Catalysis</i> , 2001, 140, 307-314. | 1.5 | 6 |
| 104 | A preliminary investigation on kinetics of zeolite A crystallisation using optical diagnostics. <i>Materials Chemistry and Physics</i> , 2000, 66, 120-125. | 2.0 | 21 |
| 105 | Chromium removal from water by ion exchange using zeolites and solidification of the resulting sludge in a cement matrix. <i>Studies in Surface Science and Catalysis</i> , 1999, , 723-730. | 1.5 | 13 |
| 106 | Ion exchange selectivity of phillipsite for Cs and Sr as a function of framework composition. <i>Microporous and Mesoporous Materials</i> , 1999, 28, 315-324. | 2.2 | 61 |
| 107 | Ion exchange selectivity of phillipsite for Cs ⁺ : a structural investigation using the Rietveld method. <i>Microporous and Mesoporous Materials</i> , 1999, 32, 319-329. | 2.2 | 22 |
| 108 | Zeolitised Materials of the Mediterranean Area as Adsorbents for Environmental Protection. , 1999, , 225-236. | | 1 |

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| 109 | Evaluation of phillipsite as cation exchanger in lead removal from water. Microporous Materials, 1996, 5, 357-364. | 1.6 | 56 |
| 110 | Evaluation of Mechanical and Leaching Properties of Cement-Based Solidified Materials Encapsulating Cd-Exchanged Natural Zeolites. Environmental Technology (United Kingdom), 1996, 17, 1215-1224. | 1.2 | 33 |
| 111 | Hydrocarbon adsorbers for reducing cold start emissions. , 0, , . | | 4 |
| 112 | Aminofunctionalized silica monolith for Pb ²⁺ removal: synthesis and adsorption experiments. , 0, 105, 287-297. | | 1 |
| 113 | Adsorption and Diffusion of Carbon Dioxide in Polyethylenimine-Modified SBA-15 Silicas. , 0, , 213-220. | | 0 |