RESEARCH & PUBLICATIONS

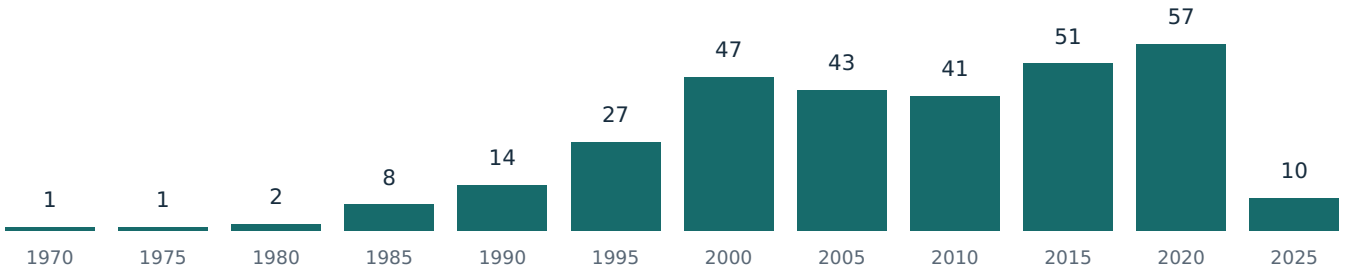
Bernard Marty

A publication record at a glance

302	24,150	80
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 5-year periods



MOST CITED IN THIS LIST

The Origins and Concentrations of Water, Carbon, Nitrogen and Noble Gases on Earth — 995
2012 Earth and Planetary Science Letters

Comet 81P/Wild 2 Under a Microscope — 921
2006 Science

Origin of Carbon in Fumarolic Gas From Island Arcs — 660
1995 Chemical Geology

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2026

01 **Noble Gases and Nitrogen in Material From Asteroid Bennu**
Meteoritics and Planetary Science · 61, 1593-1609
https://exaly.com/article/205392369
7 citations

02 **Xenon Isotope Composition of the La Palma Mantle Plume (Canary Islands): Assessing Upper Mantle Versus Plume Mantle Source Evolution**
Chemical Geology · 719, 123502
https://exaly.com/article/213951222
0 citations

2025

03 **Geochemical and Dynamical Views on the Origin of Earth's Atmosphere and Oceans**
Journal unavailable
https://exaly.com/article/188308703
3 citations

04 **Uncovering the Xenon Isotope Composition of Continental Rift Magmas: Insight From Analysis of Geothermal Gases at Homa Hills, Kenya**
Earth and Planetary Science Letters · 653, 119224
https://exaly.com/article/196942671
6 citations

05 **The Variety and Origin of Materials Accreted by Bennu’s Parent Asteroid**
Nature Astronomy · 9, 1-18
https://exaly.com/article/204075703
47 citations

06 **Effects of Melt Composition and Gas Speciation on Nitrogen Solubility in Basaltic Melt**
ACS Earth and Space Chemistry · 9, 2245-2259
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0 citations

07 **Characterization of the HIMU Mantle Source From Noble Gas Isotopes in Volcanic Gas Emissions in São Tomé (Cameroon Volcanic Line)**
ACS Earth and Space Chemistry · 9, 2375-2387
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2 citations

08 **Fluid Inclusions: Tiny Windows Into Global Paleo-Environments**
Communications Earth & Environment · 6, 820
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09 **Origins of Methane Within Diverse Geothermal Systems**
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10 **Nitrogen Isotope Fractionation During Synchrotron Light Irradiation of Solar-Like Gases**
0 citations
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2024

11 **The Low Primordial Heavy Noble Gas and 244Pu-Derived Xe Contents of Earth's Convecting Mantle**
10 citations
Earth and Planetary Science Letters · 642, 118886
https://exaly.com/article/187308881

12 **Dissecting the Complex Ne-Ar-N Signature of Asteroid Ryugu by Step-Heating Analysis**
6 citations
Geochemical Perspectives Letters · 31, 44-48
https://exaly.com/article/187856172

13 **Formation and Evolution of a Protoplanetary Disk: Combining Observations, Simulations, and Cosmochemical Constraints**
35 citations
Astronomy and Astrophysics · 691, A147
https://exaly.com/article/192939917

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14 **Noble Gases and Nitrogen in Samples of Asteroid Ryugu Record Its Volatile Sources and Recent Surface Evolution**
75 citations
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15 **Ultrahigh-Precision Noble Gas Isotope Analyses Reveal Pervasive Subsurface Fractionation in Hydrothermal Systems**
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16 **Last Glacial Maximum Cooling of 9 °C in Continental Europe From a 40 Kyr-Long Noble Gas Paleothermometry Record**
14 citations
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17 **Noble Gases**
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18 **Mantle Volatiles**
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19 **Unraveling the Composition of Mantle Noble Gases From CO_2-Rich Geothermal Emanations, Homa Hills, Kenya**
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20 **It's Not Air: What We Can Learn From Ar-Kr-Xe Isotopes in Volcanic Gases at the per Mil Level and Below**
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21 **Tracing Crust-Mantle Interactions Along the Yellowstone Hotspot Track**
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22 **Halogen Composition of Paleoproterozoic Oceans**
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23 **Atmospheric Helium Isotopes and Unknown Source of Helium-3**
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24 **Groundwater Noble Gas Paleothermometry Record of 9°C LGM Cooling in Eastern France**
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25 **Pebbles and Sand on Asteroid (162173) Ryugu: In Situ Observation and Particles Returned to Earth**
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26 **Meteoritic Noble Gas Constraints on the Origin of Terrestrial Volatiles**
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27 **Time-Sensitive Aspects of Mars Sample Return (MSR) Science**
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28 Planning Implications Related to Sterilization-Sensitive Science Investigations Associated With Mars Sample Return (MSR)
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29 Final Report of the Mars Sample Return Science Planning Group 2 (MSPG2)
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30 Rationale and Proposed Design for a Mars Sample Return (MSR) Science Program
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https://exaly.com/article/135492368

31 The Scientific Importance of Returning Airfall Dust as a Part of Mars Sample Return (MSR)
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Astrobiology · 22, S176-S185
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Astrobiology · 22, S217-S237
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33 Scientific Value of Including an Atmospheric Sample as Part of Mars Sample Return (MSR)
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34 Preliminary Planning for Mars Sample Return (MSR) Curation Activities in a Sample Receiving Facility (SRF)
44 citations
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35 High Precision Noble Gas Measurements of Hydrothermal Quartz Reveal Variable Loss Rate of Xe From the Archean Atmosphere
15 citations
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36 Origin of Life-Forming Volatile Elements in the Inner Solar System
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37 First Asteroid Gas Sample Delivered by the Hayabusa2 Mission: A Treasure Box From Ryugu

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38 The EXCITING Experiment Exploring the Behavior of Nitrogen and Noble Gases in Interstellar Ice Analogs

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39 Discontinuous Isotopic Evolution of Paleo-Atmospheric Xenon: A Record of Sun-Earth Interactions in the Deep Time?

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44 Possible Discontinuous Evolution of Atmospheric Xenon Suggested by Archean Barites

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47 Earth's Water May Have Been Inherited From Material Similar to Enstatite Chondrite Meteorites
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48 Elemental and Isotopic Behaviour of Nitrogen and Heavy Noble Gases in Interstellar Ice Analogues and the Implications for Cometary Bodies
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49 Resolving Spatial Heterogeneity of Noble Gas Isotopes in Chondrites Using Laser Ablation
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50 The End of the Atmospheric Xenon Archean's Evolution: A Study of the Great Oxygenation Event Period
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51 Xenon Isotopes in Archean and Proterozoic Insoluble Organic Matter: A Robust Indicator of Syngenecity?
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52 Noble Gas Variations in Ureilites and Their Implications for Ureilite Parent Body Formation
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53 An Evaluation of the C/N Ratio of the Mantle From Natural CO_2-Rich Gas Analysis: Geochemical and Cosmochemical Implications
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55 Tracing the Origins of the Ice Giants Through Noble Gas Isotopic Composition
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56 Future Missions Related to the Determination of the Elemental and Isotopic Composition of Earth, Moon and the Terrestrial Planets
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59 Earth's Water May Have Been Inherited From Material Similar to Enstatite Chondrite Meteorites
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64 The Origin and Fate of Volatile Elements on Earth Revisited in Light of Noble Gas Data Obtained From Comet 67P/Churyumov-Gerasimenko
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72 Coulomb Explosion of Multiply Ionized Xenon in Water Ice
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74 Salinity of the Archaean Oceans From Analysis of Fluid Inclusions in Quartz
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77 Atmospheric Helium Isotope Composition as a Tracer of Volcanic Emissions: A Case Study of Erta Ale Volcano, Ethiopia
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78 Scientific Rationale for Uranus and Neptune in Situ Explorations
95 citations
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22 citations
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95 Chondritic Xenon in the Earth's Mantle — 94 citations

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116 **Mantle Volatiles**
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120 **Evolution of Volatile Species in the Earth's Mantle: A View From Xenology** — 16 citations
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121 **The Paris Meteorite, the Least Altered CM Chondrite so Far** — 228 citations
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122 **New Evidence for Chondritic Lunar Water From Combined D/H and Noble Gas Analyses of Single Apollo 17 Volcanic Glasses** — 72 citations
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123 **Coupled Noble Gas–Hydrocarbon Evolution of the Early Earth Atmosphere Upon Solar UV Irradiation** — 57 citations
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124 **Nitrogen Isotopic Fractionation During Abiotic Synthesis of Organic Solid Particles** — 43 citations
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129 **Méthodes d'extraction des gaz rares sous ultravide** — 8 citations
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130 **Effects of Atmospheric Entry Heating on the Noble Gas and Nitrogen Content of Micrometeorites** — 25 citations
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