

J. Aléon (2016) Oxygen isotopes in the early protoplanetary disk inferred from pyroxene in a classical type B CAI. *Earth and Planetary Science Letters* **440**, 62-70.

Charnoz, S., **Aléon J.**, Chaumard, N. and Taillifet E. (2015) Growth of calcium-aluminum-rich inclusions by coagulation and fragmentation in a turbulent protoplanetary disk. *Icarus* **252**, 440-453.

Zitek A., **Aléon J.** and Prohaska T. (2015) Chemical imaging. In : *Sector Field Mass Spectrometry for Elemental and Isotopic Analysis* (Eds. Thomas Prohaska, Johanna Irrgeher, Norbert Jakubowski), Royal Society of Chemistry, 156-186.

Sangély L., Boyer B., de Chambost E., Valle N., Audinot J.-N., Ireland T., Wiedenbeck M., **Aléon J.**, Jungnickel H., Barnes J.-P., Bienvenu P. and Breuer U. (2015) Secondary Ion Mass Spectrometry. In : *Sector Field Mass Spectrometry for Elemental and Isotopic Analysis* (Eds. Thomas Prohaska, Johanna Irrgeher, Norbert Jakubowski), Royal Society of Chemistry, 443-503.

Charon, E., **Aléon J.** and Rouzaud J.-N. (2014) Impact delivery of organic matter on the acapulcoite-lodranite parent-body deduced from C, N isotopes and nanostructures of carbons in Acapulco and Lodran. *Geochimica et Cosmochimica Acta* **142**, 224-239.

Charon, E., Rouzaud J.-N. and **Aléon J.** (2014) Graphitization at low temperatures (600-1200°C) in the presence of iron – implications in planetology. *Carbon* **66**, 178-190.

Ammar, M. R., Charon, E., Rouzaud, J.-N., **Aléon, J.**, Guimbretiere, G., and Simon, P., (2011) On a reliable structural characterization of polished carbons in meteorites by Raman microspectroscopy . *Spectroscopy Letters* **44**, 535-538.

Wasserburg, G. J., Hutcheon, I. D., **Aléon, J.**, Ramon, E. C., Krot, A. N., Nagashima, K., and Brearley, A. J., (2011) Extremely Na- and Cl- rich chondrule from the CV3 carbonaceous chondrite Allende. *Geochimica et Cosmochimica Acta* **75**, 4752-4770.

Charnoz, S., Fouchet, L., **Aléon, J.**, and Moreira, M., (2011) 3D Lagrangian turbulent-diffusion of dust grains in a protoplanetary disk : Method and first application. *Astrophys. J.* **737**, 33.

J. Aléon (2010) Multiple origins of nitrogen isotopic anomalies in meteorites and comets. *Astrophys. J.* **722**, 1342-1351.

J. Duprat, E. Dobrica, C. Engrand, **J. Aléon**, Y. Marrocchi, S. Mostefaoui, A. Meibom, H. Leroux, J.-N. Rouzaud, M. Gounelle, and F. Robert, (2010) Extreme Deuterium excesses in Ultracarbonaceous micrometeorites from central Antarctic snow. *Science* **328**, 742-745

J. Aléon (2010) Meteorites and the physico-chemical conditions in the early solar nebula. In: *Physics and astrophysics of planetary systems* (Montmerle, T., Ehrenreich, D., and Lagrange, A.-M., Eds.), EDP Sciences, Les Ulis. 253-300.

J. Aléon, C. Engrand, L. Leshin and K.D. McKeegan (2009) Oxygen isotopic composition of chondritic interplanetary dust particles : a genetic link between carbonaceous chondrites and comets. *Geochimica et Cosmochimica Acta* **73**, 4558-4575.

S. B. Simon, D. J. Joswiak, H.A. Ishii, J.P. Bradley, M. Chi, L. Grossman, **J. Aléon**, D.E. Brownlee, S. Fallon, I.D. Hutcheon, G. Matrajt and K.D. McKeegan (2008) A refractory inclusion returned by Stardust from comet P81/Wild2. *Meteoritics and Planetary Science* **43**, 1861-1877.

H. Yurimoto, A. N. Krot, B.-G. Choi, **J. Aléon**, T. Kunihiro and A. J. Brearley (2008) Oxygen isotopes of chondritic components . In : *Oxygen in the solar system* (MacPherson G. J., Mittlefehldt D.

W., Jones J. H. and Simon S. B. eds.). The Mineralogical Society of America, Chantilly, USA. 141-186.

J. Aléon, A. El Goresy and E. Zinner (2007) Oxygen isotope heterogeneities in the earliest protosolar gas recorded in a meteoritic Calcium-Aluminum-rich Inclusion. *Earth and Planetary Science Letters*, **263**, 114-127.

D. Brownlee, P. Tsou, **J. Aléon** and 180 co-authors (2006) Comet Wild 2 under a microscope. *Science* **314**, 1711-1716.

K. D. McKeegan, **J. Aléon** and 43 co-authors (2006) Light element isotopic compositions of cometary matter returned by the Stardust mission. *Science* **314**, 1724-1728.

S. A. Sandford, **J. Aléon** and 48 co-authors (2006) Organics captured from Comet Wild 2 by the Stardust spacecraft. *Science* **314**, 1720-1724.

J. Aléon, A. N. Krot, K. D. McKeegan, G. J. MacPherson and A. A. Ulyanov (2005) Fine-grained, spinel-rich inclusions from the reduced CV chondrite Efremovka: II. Oxygen isotopic composition. *Meteoritics and Planetary Science* **40**, 1043-1058.

J. Aléon, F. Robert, J. Duprat and S. Derenne (2005) Extreme oxygen isotope ratios in the early Solar System. *Nature* **437**, 385-388.

A. N. Krot, I. D. Hutcheon, H. Yurimoto, J. N. Cuzzi, K. D. McKeegan, E. R. D. Scott, G. Libourel, M. Chaussidon, **J. Aléon** and M. I. Petaev (2005) Evolution of oxygen isotopic composition in the inner solar nebula. *Astrophysical Journal* **622**, 1333-1342.

J. Aléon and F. Robert (2004) Interstellar chemistry recorded by nitrogen isotopes in Solar System organic matter. *Icarus* **167**, 424-430.

J. Aléon, F. Robert, M. Chaussidon and B. Marty (2003) Nitrogen isotopic composition of macromolecular organic matter in interplanetary dust particles. *Geochimica et Cosmochimica Acta* **67**, 3773-3783.

J. Aléon, A. N. Krot and K. D. McKeegan (2002) Calcium-aluminum-rich inclusions and amoeboid olivine aggregates from the CR carbonaceous chondrites. *Meteoritics and Planetary Science* **37**, 1729-1755.

J. Aléon, M. Chaussidon, B. Marty, L. Schutz and R. Jaenicke (2002) Oxygen isotopes in single micrometer-sized quartz grains : tracing the source of Saharan dust over long-distance atmospheric transport. *Geochimica et Cosmochimica Acta* **66**, 3351-3365.

J. Aléon, C. Engrand, F. Robert and M. Chaussidon (2001) Clues to the origin of interplanetary dust particles from the isotopic study of their hydrogen-bearing phases. *Geochimica et Cosmochimica Acta* **65**, 4399-4412.

J. Aléon, M. Chaussidon, M. Champenois and D. Mangin (2001) Quantitative imaging of stable isotopes by ion microprobe. *Geostandards Newsletter: the Journal of Geostandards and Geoanalysis* **25**, 417-429.