

**Complete list of peer-reviewed publications  
(Updated February 21, 2024)**

**Year 2024**

1. Day, M.C., Jollands, M.C., Novella, D., **Nestola, F.**, Dovesi, R. and Pamato, M.G. (2024) Hydrogen-related defects in diamond: A comparison between observed and calculated FTIR spectra. *Diamond and Related Materials*, 143, 110866.
2. Rossi, V., Bernardi, M., Fornasiero, M., **Nestola, F.**, Unitt, R., Castelli, S. and Kustatscher, E. (2024), Forged soft tissues revealed in the oldest fossil reptile from the early Permian of the Alps. *Palaeontology*, 67: e12690.

**Year 2023**

3. Kasatkin A.V., Zubkova N.V., Agakhanov A.A., Chukanov N.V., Škoda R., **Nestola F.**, Belakovskiy D.I. and Pekov I.V. (2023) Mangani-eckermannite,  $\text{NaNa}_2(\text{Mg}_4\text{Mn}^{3+})\text{Si}_8\text{O}_{22}(\text{OH})_2$ , a new amphibole from Tanohata Mine, Iwate Prefecture, Japan. *Mineralogical Magazine* 87, 935–942.
4. Timmerman, S., Stachel, T., Koornneef, J.M., Smit, K.V., Harlou, R., Nowell, G.M., Thomson, A.R., Kohn, S.C., Davies, J.H.F.L, Davies, G.R., Krebs, M.Y., Zhang, Q., Milne, S.E.M., Harris, J.W., Kaminsky, F., Zedgenizov, D., Bulanova, G., Smith, C.B., Cabral Neto, I., Silveira, F.V., Burnham, A.D., **Nestola, F.**, Shirey, S.B., Walter, M.J., Steele, A., Pearson, D.G. (2023) Sublithospheric diamond ages and the supercontinent cycle. *Nature*, 623, 752-756.
5. **Nestola, F.**, Pamato, M.G., Novella, D., Wang, Y., Qu, K., Smith, E.M. (2023) Elastic geobarometry yielding a faithful sublithospheric depth for a ferropericlase inclusion in diamond. *Lithos*, 454–455, 107265.
6. **Nestola, F.**, Pamato, M.G., Novella, D. (2023) Going inside a diamond. In book: Celebrating the International Year of Mineralogy. Publisher: Springer Mineralogy. Doi: 10.1007/978-3-031-28805-0\_10.
7. Curtolo, A., Novella, D., Logvinova, A., Sobolev, N.V., Davies, R.M., Day, M.C., Pamato, M.G., **Nestola, F.** (2023) Petrology and geochemistry of Canadian diamonds: An up-to-date review. *Earth-Science Reviews*, 246, 104588.
8. Bruno, M., Ghignone, S., Aquilano, D., **Nestola, F.** (2023) Is the imposition of diamond morphology on mineral inclusions a syngenetic or post-genetic process with respect to diamond formation? *Crystal Growth & Design*, 23, 7, 5279–5288.
9. Angel, R.J., Mazzucchelli, M.L., Musiyachenko, K.A., **Nestola, F.**, Alvaro, M. (2023) Elasticity of mixtures and implications for piezobarometry of mixed-phase inclusions. *European Journal of Mineralogy*, 35, 461-478.
10. **Nestola, F.** (2023) Commentary on ‘Oldhamite: a new link in upper mantle for COS-Ca cycles and an indicator for planetary habitability’. *National Science Review*, 10, nwad185.
11. Barbaro, A., Domeneghetti, M.C., Fioretti, A.M., Alvaro, M., **Nestola, F.** (2023) Carbon polymorphs in Frontier Mountain ureilitic meteorites: A correlation with increasing the degree of shock? *Earth and Planetary Science Letters*, 614, 118201.
12. Day, M.C, Pamato, M.G., Novella, F., **Nestola, F.** (2023) Imperfections in natural diamond: the key to understanding diamond genesis and the mantle. *La Rivista del Nuovo Cimento*, 46, 381 – 471.

13. Wang, Y., Chen, R., Gu, X., **Nestola, F.**, Hou, Z., Yang, Z., Dong, G., Guo, H., Qu, K. (2023) Tetrahedrite-(Ni),  $\text{Cu}_6(\text{Cu}_4\text{Ni}_2)\text{Sb}_4\text{S}_{13}$ , the first nickel member of tetrahedrite group mineral from Luobusa chromite deposits, Tibet, China. *American Mineralogist*, 108, 1984 – 1992.
14. Barbaro, A., Zorzi, F., Lorenzetti, A., Ferrari, S., Tubaro, C., **Nestola, F.** (2023) Thermal expansion of oldhamite, CaS: Implication for the surface of Mercury. *Icarus*, 401, 115629
15. **Nestola, F.**, Regier, M., Luth, R., Pearson, D.G., Stachel, T., McCammon, C., Wenz, M., Jacobsen, S., Anzolini, C., Bindi, L., Harris, J.W. (2023) Extreme redox gradients documented by a superdeep diamond and its implications for deep mantle hydration and metal saturation. *Nature*, 613, 85-89.
16. **Nestola, F.**, Prencipe, M., Belmonte, D. (2023)  $\text{Mg}_3\text{Al}_2\text{Si}_3\text{O}_{12}$  jeffbenite inclusion in super-deep diamonds is thermodynamically stable at very shallow Earth's depths. *Scientific Reports*, 13, 83.
17. Genzel, P.T., Pamato, M.G., Novella, D., Santello, L., Lorenzon, S., Shirey, S.B., Pearson, D.G., **Nestola, F.**, Brenker, F.E. (2023) Geobarometric evidence for a LM/TZ origin of  $\text{CaSiO}_3$  in a sublithospheric diamond. *Geochemical Perspective Letters*, 25, 41 – 45.
18. Zuccari, C., Vignaroli, G., Callegari, I., **Nestola, F.**, Novella, D., Giuntoli, F., Guillong, M., Viola, V. (2023) Forming and preserving aragonite in shear zones: First report of blueschist facies metamorphism in the Jabal Akhdar Dome, Oman Mountains. *Geology*, 51, 454 – 459.
19. Wang, Y., Gu, X., Dong, G., Hou, Z., **Nestola, F.**, Yang, Z., Wang, Y., Qu, K. (2023) Calcioancylite-(La),  $(\text{La,Ca})_2(\text{CO}_3)_2(\text{OH,H}_2\text{O})_2$ , a new member of the ancylite group from Gejiu nepheline syenite, Yunnan Province, China. *Mineralogical Magazine*, 87, 554 – 560.
20. Faccincani, L., Criniti, G., Kurnosov, A., Boffa Ballaran, T., Withers, A.C., Mazzucchelli, M., **Nestola, F.**, Coltorti, M. (2023) Sound velocities and single-crystal elasticity of hydrous  $\text{Fo}_{90}$  olivine to 12 GPa. *Physics of the Earth and Planetary Interiors*, 337, 107011.
21. Wang, Y., **Nestola, F.**, Li, H., Hou, Z., Pamato, M.G., Novella, D., Lorenzetti, A. (2023) In situ single-crystal X-ray diffraction of olivine inclusion in diamond from Shandong, China: implications for the depth of diamond formation. *European Journal of Mineralogy*, 35, 361 – 372.
22. Lorenzon, S., Wenz, M., Nimis, P., Jacobsen, S.D., Pasqualetto, L., Pamato, M.G., Novella, D., Zhang, D., Anzolini, C., Regier, M., Stachel, T., Pearson, D.G., Harris, J.W., **Nestola, F.** (2023) Dual origin of ferropericase inclusions within super-deep diamonds. *Earth and Planetary Science Letters*, 608, 118081.
23. Kasatkin, A.V., **Nestola, F.**, Plášil, J., Sejkora, J., Vymazalová, A., Škoda, R. (2023) Tolstykhite,  $\text{Au}_3\text{S}_4\text{Te}_6$ , a new mineral from Maletoyvayam deposit, Kamchatka peninsula, Russia. *Mineralogical Magazine*, 87, 34 – 39.
24. Tolstykh, N., Kasatkin, A.V., **Nestola, F.**, Vymazalová, A., Agakhanov, A., Palyanova, G., Korolyuk, V. (2023) Auroselene,  $\text{AuSe}$ , a new mineral from Maletoyvayam deposit, Kamchatka peninsula, Russia. *Mineralogical Magazine*, 87, 284 – 291.
25. Wang, Y., **Nestola, F.**, Hou, Z., Gu, X., Dong, G., Yang, Z., Fan, G., Xiao, Z., Qu, K. (2023) Bobtraillite from Gejiu hyperagpaitic nepheline syenite, southwestern China: new occurrence and crystal structure. *European Journal of Mineralogy*, 35, 65 – 74.
26. Wang, Y., Chen, R., Gu, X., Hou, Z., **Nestola, F.**, Yang, Z., Fan, G., Dong, G., Ye, L., Qu, K. (2023) Tennantite-(Ni),  $\text{Cu}_6(\text{Cu}_4\text{Ni}_2)\text{As}_4\text{S}_{13}$ , from Luobusa ophiolite, Tibet, China: a new Ni member of the tetrahedrite group. *Mineralogical Magazine*, 87, 591 – 598.
27. Kasatkin, A.V., Pekov, I.V., Škoda, R., Chukanov, N.V., **Nestola, F.**, Agakhanov, A.A., Kuznetsov, A.M., Koshlyakova, N.N., Plášil, J., Britvin, S.N. (2023) Fluorpyromorphite,  $\text{Pb}_5(\text{PO}_4)_3\text{F}$ , a new apatite-group mineral from Sukhoviyaz Mountain, Southern Urals, and Tolbachik volcano, Kamchatka. *Journal of Geosciences*, 68, 81 – 93.

28. Kasatkin, A.V., Siidra, O.I., **Nestola, F.**, Pekov, I.V., Agakhanov, A.A., Koshlyakova, N.N., Chukanov, N.V., Nazarchuk, E.V., Molinari, S., Rossi, M. (2023) Napolite,  $Pb_2OFCl$ , a new mineral from Vesuvius volcano, and its relationship with dimorphous rumseyite. *Mineralogical Magazine*, 87, 711 – 718.
29. Sejkora, J., Biagioni, C., Škácha, P., Musetti, S., Kasatkin, A.V., **Nestola, F.** (2023) Tetrahedrite-(Cd),  $Cu_6(Cu_4Cd_2)Sb_4S_{13}$ , from Radětice near Příbram, Czech Republic: the new Cd member of the tetrahedrite group. *European Journal of Mineralogy*, 35, 897 – 907.
30. Kasatkin, A.V., Vymazalová, A., **Nestola, F.**, Gurzhiy, V.V., Agakhanov, A.A., Škoda, R., Belakovskiy, D.I., Generalov, M.E. (2023) A re-evaluation of stannopalladinite using modern analytical techniques. *Mineralogical Magazine*, 87, 773 – 782.
31. Kasatkin, A.V., Zubkova, N.V., Agakhanov, A.A., Chukanov, N.V., Škoda, R., **Nestola, F.**, Belakovskiy, D.I., Pekov, I.V. (2023) Mangani-eckermannite,  $NaNa_2(Mg_4Mn^{3+})Si_8O_{22}(OH)_2$ , a new amphibole from Tanohata Mine, Iwate Prefecture, Japan. *Mineralogical Magazine*, doi:10.1180/mgm.2023.63.

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32. Gu, T., Pamato, M., Novella, D., Alvaro, M., Fournelle, J., Brenker, F.E., Wang, W., **Nestola, F.** (2022) Hydrous peridotitic fragments of Earth's mantle 660 km discontinuity sampled by a diamond. *Nature Geoscience*, 15, 950 – 954.
33. Angel, R.J., Alvaro, M., **Nestola, F.** (2022) Crystallographic Methods for Non-destructive Characterization of Mineral Inclusions in Diamonds. *Reviews of Mineralogy and Geochemistry*, 88, 257 – 306.
34. Alvaro, M., Angel, R.J., **Nestola, F.** (2022) Inclusions in diamonds probe Earth's chemistry through deep time. *Nature Communications Chemistry*, 5, art. no. 10.
35. Timmerman, S., Reimink, J.R., Vezinet, A., **Nestola, F.**, Kublik, K., Banas, A., Stachel, T., Stern, R.A., Luo, Y., Sarkar, C., Ielpi, A., Currie, C.A., Mircea, C., Jackson, V., Pearson, D.G. (2022) Mesoarchean diamonds formed in thickened lithosphere, caused by slab-stacking. *Earth and Planetary Science Letters*, 59215, Art. 117633.
36. Pasqualetto, L., **Nestola, F.**, Jacob, D.E., Pamato, M.G., Oliveira, B., Perritt, S., Chinn, I., Nimis, P., Milani, S., Harris, J.W. (2022) Protogenetic clinopyroxene inclusions in diamond and Nd diffusion modeling—Implications for diamond dating. *Geology*, 50, 1038 – 1042.
37. Lorenzon, S., Novella, D., Nimis, P., Jacobsen, S.D., Thomassot, E., Pamato, M.G., Prospero, L., Lorenzetti, A., Alvaro, M., Brenker, F.E., Salvadego, F., **Nestola, F.** (2022) Ringwoodite and zirconia inclusions indicate downward travel of super-deep diamonds. *Geology*, 50, 996 – 1000.
38. Guastoni, A., **Nestola, F.**, Zorzi, F., Lanza, A., Ernst, M., Gentile, P., Andò, S., Lorenzetti, A. (2022) Marchettiite,  $(NH_4)C_5H_3N_4O_3$ , a new organic mineral from Mount Cervandone, Devero Valley, Western-Central Alps, Italy. *Mineralogical Magazine*, 86, 966 – 974.
39. Barbaro, A., **Nestola, F.**, Pittarello, L., Ferrière, L., Murri, M., Litasov, K.D., Christ, O., Alvaro, M., Chiara Domeneghetti, M. (2022) Characterization of carbon phases in Yamato 74123 ureilite to constrain the meteorite shock history. *American Mineralogist*, 107, 377 – 384.
40. Scatena, R., Massignani, S., Lanza, A.E., Zorzi, F., Monari, M., **Nestola, F.**, Pettinari, C., Pandolfo, L. (2022) Synthesis of Coordination Polymers and Discrete Complexes from the Reaction of Copper(II) Carboxylates with Pyrazole: Role of Carboxylates Basicity. *Crystal Growth and Design*, 22, 1032 – 1044.

41. Faccincani, L., Cerantola, V., **Nestola, F.**, Nimis, P., Ziberna, L., Pasqualetto, L., Chumakov, A., Harris, J.W., Coltorti, M. (2022) Relatively oxidized conditions for diamond formation at Udachnaya (Siberia). *European Journal of Mineralogy*, 34, 549 – 561.
42. Anzolini, C., Siva-Jothy, W.K., Locock, A., **Nestola, F.**, Balić-Zunić, T., Alvaro, M., Chinn, I., Stachel, T., Pearson, G.D. (2022) Heamanite-(Ce),  $(K_{0.5}Ce_{0.5})TiO_3$ , a new perovskite supergroup mineral found in diamond from Gahcho Kué, Canada. *American Mineralogist*, 107, 1635 – 1642.
43. Kasatkin, A.V., Plášil, J., Chukanov, N.V., Škoda, R., **Nestola, F.**, Agakhanov, A.A., Belakovskiy, D.I. (2022) Gurzhiite,  $Al(UO_2)(SO_4)_2F \cdot 10H_2O$ , a new uranyl sulfate mineral with a chain structure from the Bykogorskoe deposit, Northern Caucasus, Russia. *Mineralogical Magazine*, 86, 412 – 421.
44. Biagioni, C., Kasatkin, A.V., Seikora, J., Skoda, R., **Nestola, F.** (2022) Tennantite-(Cd),  $Cu_6(Cu_4Cd_2)As_4S_{13}$ , from the Berenguela mining district, Bolivia: the first Cd-member of the tetrahedrite group. *Mineralogical Magazine*, 86, 834 – 840.
45. Britvin, S.N., Vlasenko, N.S., Aslandukov, A., Aslandukova, A., Dubrovinsky, L., Gorelova, L.A., Krzhizhanovskaya, M.G., Vereshchagin, O.S., Bocharov, V.N., Shelukhina, Y.S., Lozhkin, M.S., Zaitsev, A.N., **Nestola, F.** (2022) Natural cubic perovskite,  $Ca(Ti,Si,Cr)O_{3-\delta}$ , a versatile potential host for rock-forming and less-common elements up to Earth's mantle pressure. *American Mineralogist*, 107, 1936 – 1945.
46. Kasatkin, A.V., Anisimova, G.S., **Nestola, F.**, Plášil, J., Sejkora, J., Škoda, R., Sokolov, E.P., Kondratieva, L.A., Kardashevskaya, V.N. (2022) Amgaitite,  $Ti^{3+}_2Te^{6+}O_6$ , a New Mineral from the Khokhoykoe Gold Deposit, Eastern Siberia, Russia. *Minerals*, 12, Art. 1064.
47. Cámara, F., Baratelli, L., Ciriotti, M.E., **Nestola, F.**, Piccoli, G.C., Bosi, F., Bittarello, E., Hålenius, U., Balestra, C. (2022) As-bearing new mineral species from Valletta mine, Maira Valley, Piedmont, Italy: IV. Lombardoite,  $Ba_2Mn^{3+}(AsO_4)_2(OH)$  and aldomarinoite,  $Sr_2Mn^{3+}(AsO_4)_2(OH)$ , description and crystal structure. *Mineralogical Magazine*, 86, 447 – 458.
48. Christ, O., Barbaro, A., Brenker, F.E., Nimis, P., Novella, D., Domeneghetti, M.C., **Nestola, F.** (2022) Shock degree and graphite geothermometry in ureilites NWA 6871 and NWA 3140. *Meteoritics and Planetary Science*, 57, 1861 – 1878.

#### Year 2021

49. **Nestola, F.**, Ferrari, S., Pamato, M.G., Redhammer, G., Helbert, J., Alvaro, M., Domeneghetti, M.C. The best temperature range to acquire reliable thermal infrared spectra from orbit (2021) *Scientific Reports*, 11, art. no. 13212.
50. Antonelli, F., **Nestola, F.** (2021) An innovative approach for provenancing ancient white marbles: the contribution of x-ray diffraction to disentangling the origins of Göktepe and Carrara marbles. *Scientific Reports*, 11, art. no. 22312.
51. Smith, E.M., **Nestola, F.** (2021) Super-deep diamonds: emerging deep mantle insights from the past decade. In “Mantle convection and surface expressions”, *Geophysical Monograph*, 263, first edition. Eds: Marquardt, H., Ballmer, M., Cottaar, S., Konter, J. American Geophysical Union. Pages 179 – 192.
52. Faccincani, L., Faccini, B., Casetta, F., Mazzucchelli, M., **Nestola, F.**, Coltorti, M. (2021) EoS of mantle minerals coupled with composition and thermal state of the lithosphere: Inferring the density structure of peridotitic systems (2021) *Lithos*, 404-405, art. no. 106483.
53. Barbaro, A., Domeneghetti, M.C., Litasov, K.D., Ferrière, L., Pittarello, L., Christ, O., Lorenzon, S., Alvaro, M., **Nestola, F.** Origin of micrometer-sized impact diamonds in ureilites by catalytic growth involving Fe-Ni-silicide: The example of Kenna meteorite (2021) *Geochimica et Cosmochimica Acta*, 309, 286 – 298.

54. Britvin, S.N., Vereshchagin, O.S., Shilovskikh, V.V., Krzhizhanovskaya, M.G., Gorelova, L.A., Vlasenko, N.S., Pakhomova, A.S., Zaitsev, A.N., Zolotarev, A.A., Bykov, M., Lozhkin, M.S., **Nestola, F.** (2021) Discovery of terrestrial allabogdanite (Fe,Ni)<sub>2</sub>P, and the effect of Ni and Mo substitution on the barringerite-allabogdanite high-pressure transition. *American Mineralogist*, 106, 944 – 952.
55. Perna, M.G., Zaccaria, D., Rosatelli, G., Stoppani, F.S., Curti, E., Spratt, J., Humphreys-williams, E., Najorka, J., Brownscombe, W., **Nestola, F.**, Stoppa, F. (2021) Dissolution-repackaging of hellandite-(Ce), mottanaite-(ce)/ferri-mottanaite-(Ce). *Minerals*, 11, art. no. 610.
56. **Nestola, F.** (2021) How to apply elastic geobarometry in geology. *American Mineralogist*, 106, 669 – 671.
57. Smith, E.M., **Nestola, F.**, Pasqualetto, L., Zorzi, F., Secco, L., Wang, W. (2021) The new mineral crowningshieldite: A high-temperature NiS polymorph found in a type IIa diamond from the Letseng mine, Lesotho. *American Mineralogist*, 106, 301 – 308.
58. Cesare, B., Parisatto, M., Mancini, L., Peruzzo, L., Franceschi, M., Tacchetto, T., Reddy, S., Spiess, R., **Nestola, F.**, Marone, F. (2021) Mineral inclusions are not immutable: Evidence of post-entrapment thermally-induced shape change of quartz in garnet. *Earth and Planetary Science Letters*, 555, art. no. 116708.
59. Brenker, F.E., **Nestola, F.**, Brenker, L., Peruzzo, L., Harris, J.W. (2021) Origin, properties, and structure of breyite: The second most abundant mineral inclusion in super-deep diamonds. *American Mineralogist*, 106, 38 – 43.
60. Pamato, M.G., Novella, D., Jacob, D.E., Oliveira, B., Pearson, D.G., Greene, S., Afonso, J.C., Favero, M., Stachel, T., Alvaro, M., **Nestola, F.** (2021) Protogenetic sulfide inclusions in diamonds date the diamond formation event using Re-Os isotopes. *Geology*, 49, 941 – 945.
61. Cámara, F., Kampf, A.R., **Nestola, F.**, Ciriotti, M.E., Spartà, D., Balestra, C. (2021) Demagistrisite, the missing link in a polysomatic series from lawsonite to orientate. *Canadian Mineralogist*, 59, 91 – 105.
62. Hatert, F., Grew, E.S., Vignola, P., Rotiroli, N., **Nestola, F.**, Keller, P., Bruni, Y., Fransolet, A.M., Dal Bo, F., Depret, M. (2021) Crystal chemistry and nomenclature of fillowite-type phosphates. *Canadian Mineralogist*, 59, 781 – 796.

#### Year 2020

63. Kasatkin, A.V., Zubkova, N.V., Pekov, I.V., Chukanov, N.V., Ksenofontov, D.A., Agakhanov, A.A., Belakovskiy, D.I., Polekhovskiy, Y.S., Kuznetsov, A.M., Britvin, S.N., Pushcharovsky, D.Y., **Nestola, F.** (2020) The mineralogy of the historical Mochalin Log REE deposit, South Urals, Russia. Part II. Radekškodaite-(La), (CaLa<sub>5</sub>)(Al<sub>4</sub>Fe<sup>2+</sup>)[Si<sub>2</sub>O<sub>7</sub>][SiO<sub>4</sub>]<sub>5</sub>O(OH)<sub>3</sub> and radekškodaite-(Ce), (CaCe<sub>5</sub>)(Al<sub>4</sub>Fe<sup>2+</sup>)[Si<sub>2</sub>O<sub>7</sub>][SiO<sub>4</sub>]<sub>5</sub>O(OH)<sub>3</sub>, two new minerals with a novel structure-type belonging to the epidote-törnebohmite polysomatic series. *Mineralogical Magazine*, 84, 839 – 853.
64. Fondriest, M., Mecklenburgh, J., Passelegue, F.X., Artioli, G., **Nestola, F.**, Spagnuolo, E., Rempé, M., Di Toro, G. (2020) Pseudotachylyte alteration and the rapid fade of earthquake scars from the geological record. *Geophysical Research Letters*, 47, art. no. e2020GL090020.
65. Barbaro, A., Domeneghetti, M.C., Goodrich, C.A., Meneghetti, M., Litt, L., Fioretti, A.M., Jenniskens, P., Shaddad, M.H., **Nestola, F.** (2020) Graphite-based geothermometry on Almahata Sitta ureilitic meteorites. *Minerals*, 10, art. no. 1005.

66. Roth, P., Meisser, N., **Nestola, F.**, Škoda, R., Cámara, F., Bosi, F., Ciriotti, M.E., Hålenius, U., Schnyder, C., Bracco, R. (2020) Rüdlingerite,  $Mn_2^{+2}V^{5+}As^{5+}O_7 \cdot 2H_2O$ , a new species isostructural with fianelite-*Minerals*, 10, art. no. 960.
67. Angel, R.J., Mazzucchelli, M.L., Alvaro, M., **Nestola, F.** "EosFit-Pinc: A simple GUI for host-inclusion elastic thermobarometry" - Reply to Zhong et al (2020) *American Mineralogist*, 105, 1587 – 1588.
68. Pennacchioni, G., Scambelluri, M., Bestmann, M., Notini, L., Nimis, P., Plümper, O., Faccenda, M., **Nestola, F.** Record of intermediate-depth subduction seismicity in a dry slab from an exhumed ophiolite (2020) *Earth and Planetary Science Letters*, 548, art. no. 116490.
69. **Nestola, F.**, Goodrich, C.A., Morana, M., Barbaro, A., Jakubek, R.S., Christ, O., Brenker, F.E., Domeneghetti, M.C., Dalconi, M.C., Alvaro, M., Fioretti, A.M., Litasov, K.D., Fries, M.D., Leoni, M., Casati, N.P.M., Jenniskens, P., Shaddad, M.H. (2020) Impact shock origin of diamonds in ureilite meteorites. *Proceedings of the National Academy of Sciences of the United States of America*, 117, 25310 – 25318.
70. Silvestri, A., **Nestola, F.**, Peruzzo, L. (2020) Manganese-containing inclusions in late-antique glass mosaic tesserae: a new technological marker? *Minerals*, 10, art. no. 881.
71. Kasatkin, A.V., **Nestola, F.**, Škoda, R., Chukanov, N.V., Agakhanov, A.A., Belakovskiy, D.I., Lanza, A., Holá, M., Rumsey, M.S. (2020) Hingganite-(Nd),  $Nd_2ABe_2Si_2O_8(OH)_2$ , a new gadolinite-supergroup mineral from zagi mountain, Pakistan. *Canadian Mineralogist*, 58, 549 – 562.
72. Anzolini, C., Marquardt, K., Stagno, V., Bindi, L., Frost, D.J., Pearson, D.G., Harris, J.W., Hemley, R.J., **Nestola, F.** (2020) Evidence for complex iron oxides in the deep mantle from FeNi(Cu) inclusions in superdeep diamond. *Proceedings of the National Academy of Sciences of the United States of America*, 117, 2108 – 21094.
73. Vitale Brovarone, A., Butch, C.J., Ciappa, A., Cleaves, H.J., II, Elmaleh, A., Faccenda, M., Feineman, M., Hermann, J., **Nestola, F.**, Cordone, A., Giovannelli, D. (2020) Let there be water: how hydration/dehydration reactions accompany key Earth and life processes. *American Mineralogist*, 105, 1152 – 1160.
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