

List of publications, congress contributions and invited talks

Scientific Articles and Book Chapters

- [107] Ende, M., Kirkkala, T., Loitzenbauer, M., Talla, D., Wildner, M., **Miletich R.** (2020): High pressure behaviour of nickel sulfate monohydrate: Isothermal compressibility, structural polymorphism, and transition pathway. *Inorganic Chemistry* (accepted)
- [106] Gogolin, M., Murshed, M.M., Ende, M., **Miletich, R.**, Gesing, T.M. (2020): Uniaxial negative thermal expansion in the mullite- and borax-type PbAlBO_4 polymorphs. *J. Mater. Sci.* 55, 177-190 (doi: 10.1007/s10853-019-04013-6)
- [105] Meusburger, J.M., Ende, M., Matzinger, P., Talla, D., **Miletich R.**, Wildner, M. (2020): Polymorphism of Mg-sulfate monohydrate kieserite under pressure and its occurrence on giant icy Jovian satellites. *Icarus* 336, 113469, 1-14 (doi: 10.1016/j.icarus.2019.113459)
- [104] Müller, D., Knoll, C., Gravogl, G., Artner, W., Welch, J.M., Eitenberger, E., Friedbacher, G., Schreiner, M., Harasek, M., Hradil, K., Werner, A., **Miletich, R.**, Weinberger, P. (2019) Tuning the performance of MgO for thermochemical energy storage by dehydration – from fundamentals to phase impurities. *Applied Energy* 253, 113562 (doi: 10.1016/j.apenergy.2019.113562)
- [103] Meusburger, J.M., Ende, M., Talla, D., Wildner, M., **Miletich R.** (2019) Transformation mechanism of the pressure-induced C2/c -to- $\text{P}\bar{1}$ transition in ferrous sulphate monohydrate single crystals. *Journal of Solid State Chemistry* 277, 240-252 (doi: 10.1016/j.jssc.2019.06.004)
- [102] Gravogl, G., Knoll, C., Artner, W., Welch, J.M., Eitenberger, E., Friedbacher, G., Harasek, M., Hradil, K., Werner, A., Weinberger, P., Müller, D., **Miletich, R.** (2019) Pressure effects on the carbonatization of MeO (Me=Co, Mn, Pb, Zn) for thermochemical energy storage. *Applied Energy* 252, 113451, 1-8 (doi: 10.1016/j.apenergy.2019.113451)
- [101] Müller, D., Knoll, C., Gravogl, G., Artner, W., Werner, A., Welch, J., **Miletich, R.**, Harasek, M., Weinberger P. (2019) Low-temperature carbonatization of metal oxides. *Energy Procedia* 158, 4870-4881 (doi: 10.1016/j.egypro.2019.01.706)
- [100] Hejny, C., Konzett, J., Pippinger, T., Klotz, T. **Miletich, R.** (2019) Pressure-enforced Cr-substitution in $\text{Cr}_{1+x}\text{Al}_{1-x}\text{O}(\text{SiO}_4)$ synthetic analogues of kyanite. *Physics and Chemistry of Minerals*, 46, 583-594 (doi: 10.1007/s00269-019-01024-2)
- [99] Scheidl, K.S., Effenberger, H.S., Yagi, T., Momma, K., **Miletich R.** (2019) Transformation pathways and isothermal compressibility of MTN-type clathrasil using penetrating and non-penetrating fluids. *Microporous and Mesoporous Materials* 273, 73-89 (doi: 10.1016/j.micromeso.2018.06.033)
- [98] Gravogl, G., Knoll, C., Welch, J.M., Artner, W., Freiberger, N., Nilica, R., Eitenberger, E., Friedbacher, G., Harasek, M., Werner, A., Hradil, K., Peterlik, H., Weinberger, P., Müller, D., **Miletich, R.** (2018) Cycle stability and hydration behavior of magnesium oxide and its dependence on the precursor-related particle morphology. *Nanomaterials*, 8, 795 (doi: 10.3390/nano8100795)
- [97] Scheidl, K.S., Effenberger, H.S., Yagi, T., Momma, K., **Miletich R.** (2018) The hydrocarbon-bearing clathrasil chibaite and its host-guest structure at low temperature. *IUCrJ Chemistry|Crysteng* 5, 595-697 (doi: 10.1107/S2052252518009107)
- [96] Dziubek, K.F., Ende, M., Scelta, D., Bini, R., Mezouar, M., Garbarino, G., **Miletich R.** (2018) Crystalline polymeric carbon dioxide stable at megabar pressures. *Nature Communications* 9, 3148 (doi: 10.1038/s41467-018-05593-8)
- [95] Gravogl, G., Artner, W., Eitenberger, E., Friedbacher, G., Harasek, M., Knoll, C., **Miletich, R.**, Müller, D., Weinberger, P., Werner, A. (2018): Moisture-triggered ambient-temperature carbonation of main group II metal oxides under elevated CO_2 pressure. *Proceedings of the ISES Solar World Conference 2017*, 799-810 (doi: 10.18086/swc.2017.14.01.)
- [94] Knoll, C., Gravogl, G., Artner, W., Eitenberger, E., Friedbacher, G., Werner, A., **Miletich, R.**, Weinberger, P., Müller, D., Harasek, M. (2018): Metal oxides for thermochemical energy storage - From gas-triggered isothermal cycling to low-temperature applications with increased O_2 pressure. *Proceedings of the ISES Solar World Conference 2017*, 811-820 (doi:10.18086/swc.2017.14.02.)
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- [92] Ende, M., Effenberger, H., **Miletich, R.** (2017) Evolution of the α -BaMg(CO₃)₂ low-temperature superstructure and the tricritical nature of the $\alpha(R\bar{3}c)$ - $\beta(R\bar{3}m)$ phase transition. Acta Crystallographica B73, 827-835 (doi: 10.1107/S2052520617009295)
- [91] Angel, R.J., Alvaro, M., Gonzales-Platas, J., **Miletich, R.**, Nestola, F., (2017): A simple and generalised P-T-V EoS for structural phase transitions, implemented in EoSFit and applied to quartz. submitted to Contrib. Mineral. Petrol. 172 (2017), 29-44
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- [89] Scheidl, K.S., Kurnosov, A., Trots, D.M., Boffa-Ballaran, T., Angel, R.J., **Miletich R.** (2016): Extending the single-crystal quartz pressure gauge used for high-pressure crystallography up to a pressure of 19 GPa. J. Appl. Cryst. 49 (6), 2129-2137 (doi:10.1107/S1600576716015351)
- [88] Shelton, H., Barkley, M.C., Downs, R.T., **Miletich, R.**, Dera, P. (2016) Hydrogen bond effects on compressional behavior of isotopic minerals: High-pressure polymorphism of cristobalite-like Be(OH)₂. Physics and Chemistry of Minerals, 43, 571-586 (doi: 10.1007/s00269-016-0818-5)
- [87] Hofer, G., Kuzel, J., Scheidl, K.S., Redhammer, G.J., **Miletich, R.** (2015) High-pressure crystallography and compression behaviour of the alkali-scandium-germanate end-members LiScGe₂O₆ and NaScGe₂O₆. J. Solid State Chemistry, 229 (2015) 188-196
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Patents and Inventions

- [1] Müller, D., Knoll, C., Weinberger, P., Gravogl, G. **Miletich R.**: "CO₂ Reduktion mit MeO (Me= Mn, Co)"

Contributions at Scientific Congresses (Abstracts)

- [172] **Miletich, R.**, Gravogl, G., Birkelbach, F., Müller, D., Lengauer, C.L., Werner, A., Weinberger, P. (2020): *Pressure dependence of the carbonation kinetics of water-saturated CaO*. Goldschmidt 2020, Honolulu, Hawai'i, U.S.A., 21.-26.06.2020
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- [170] **Miletich, R.** (2019): *CO₂ and carbonate polymorphs – Metastability under static and dynamic compression conditions*. EUROMAT 2019, Stockholm, Sweden, 01.-05.09.2019
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- [3] Effenberger, H., **Miletich, R.** (1993): *The crystal structure of the new synthetic compound $Na_2Bi_2Cu_3O_4(AsO_4)_2 \cdot H_2O$* . Tagung der International Union of Crystallography, Beijing, China, 20.-28.08.1993
- [2] Wacenovskiy, M., **Miletich, R.**, Weber H.W. (1992): *Influence of fast neutron irradiation on critical currents and irreversibility lines in quench melt processed $YBa_2Cu_3O_7$ -Superconductors*. Critical Currents in High T_c Superconductors-Konferenz, Wien, Austria, 22.-24.04.1993
- [1] **Miletich, R.** (1992): *Cu-Substitution in Mn-Denningiten: $Mn(Mn_{1-x}Cu_x)[Te_2O_5]_2$ ($0.0 \leq x \leq 1.0$)*. Jahrestagung der Deutschen Gesellschaft für Kristallographie, Mainz, Germany, 04.-09.06.1992

Invited contributions, lectures and seminars

- [70] European Congress and Exhibition on Advanced Materials and Processes EUROMAT2019, Symposium H7 "Synthesis, optimization, characterization through extreme conditions of energy-relevant materials", Stockholm, Sweden, 05.09.2019. *CO₂ and carbonate polymorphs – Metastability under static and dynamic compression conditions.* (*invited keynote lecture*)
- [69] 11th European NESY Winterschool and Symposium on Neutron and Synchrotron Radiation, Altaussee, Austria, 07.03.2019. *Extended stability of carbon dioxide above 1 Mbar – Extreme Condition Research using Synchrotron Radiation.* (*invited lecture*)
- [68] Institute of Solid State Chemistry and Mechanochemistry, Novosibirsk State University, Novosibirsk, Russia, 04.02.2019. *New advances in extreme-condition research in planetary sciences.* (*invited lecture*)
- [67] Institute of Solid State Chemistry and Mechanochemistry, Novosibirsk State University, Novosibirsk, Russia, 01.02.2019. *Experimental facilities in high-pressure research* (*invited lecture*)
- [66] Department of Crystalline Material Science, Graduate School of Engineering, Nagoya University, Japan, 19.05.2017. *Decoding high-pressure phase transitions - Structural crystallography at non ambient conditions.* (*invited lecture*)
- [65] 10th European NESY Winterschool and Symposium on Neutron and Synchrotron Radiation, Altaussee, Austria, 07.03.2017. *X-ray crystallography under extreme conditions using inhouse facilities, synchrotrons, and FELs* (*invited lecture*)
- [64] Institut für Anorganische Chemie und Kristallographie, Universität Bremen, Germany, 26.01.2017. *Decoding high-pressure phase transitions: Structural crystallography at non ambient conditions.* (*invited lecture*)
- [63] Institut für Kristallographie, RWTH Aachen, Germany, 26.01.2016. *Decoding the pathways of pressure-driven phase transitions* (*invited lecture*)
- [62] 9th European NESY Winterschool and Symposium on Neutron and Synchrotron Radiation, Altaussee, Austria, 11.03.2015. *X-ray diffraction under extreme conditions* (*invited lecture*)
- [61] Vortragsreihe der Österreichischen Mineralogischen Gesellschaft, Jahreshauptversammlung der ÖMG, Geozentrum der Universität Wien, Austria, 26.01.2015. *Die diamanterne Dienerin?*
- [60] Vortragsreihe der Österreichischen Mineralogischen Gesellschaft, Montanuniversität Leoben, Austria, 21.01.2015. *Die diamanterne Dienerin?*
- [59] Vortragsreihe der Österreichischen Mineralogischen Gesellschaft, Institut für Erdwissenschaften der Universität Graz, Austria, 20.01.2015. *Die diamanterne Dienerin?*
- [58] Vortragsreihe der Österreichischen Mineralogischen Gesellschaft, Geo-Kolloquium an der Universität Innsbruck, Austria, 15.01.2015. *Die diamanterne Dienerin?*
- [57] Vortragsreihe der Österreichischen Mineralogischen Gesellschaft, Geologisches Kolloquium an der Universität Salzburg, Austria, 14.01.2015. *Die diamanterne Dienerin?*
- [56] Erich-Schmidt Kolloquium, ESI der Montanuniversität Leoben, Austria, 25.06.2014. *Going to Extremes – Advances and Implications of Experimental in-situ X-ray Crystallography.* (*invited lecture*)
- [55] 21st Conference of the Serbian Crystallographic Society, Užice, Serbia, 13.06.2014. *Going to Extremes – Advances and Implications of Experimental in-situ Crystallography.* (*invited plenary talk*)
- [54] 7th Frolic Goats Workshop on High-Pressure Single-Crystal X-ray Diffraction. Poznan, Poland, 28.04.2014. *Advancements and Experimental Experiences in sXRD at Non-Ambient Conditions.* (*invited lecture note*)
- [53] 29th Workshop on Novel Materials and Superconductivity, Obertraun, Austria, 13.02.2014. *Novel Materials at High Pressures – Experimental Approaches.* (*invited lecture note*)
- [52] Symposium "Research at European Neutron and Synchrotron Facilities by Austrian Researchers", Wien, Austria, 11.-12.11.2013. *In very tight places – Solids and their mechanical response at high pressures.* (*invited lecture note*)
- [51] ICCM-3 satellite workshop "Frontiers of crystallography", Novosibirsk, Russia, 03.10.2013. *Introduction to DAC Techniques (Part I) – DAC Types and Principles of Operation.* (*invited lecture*)

- [50] ICCM-3 satellite workshop "Frontiers of crystallography", Novosibirsk, Russia, 03.10.2013. *Introduction to DAC Techniques (Part II) – About The Secret Towards Successful Experiments. (invited lecture)*
- [49] Third International Conference on Crystallogenesi and Mineralogy (ICCM-3), Novosibirsk, Russia, 29.09.2013. *Orthorhombic, Monoclinic, Triclinic - Surprises on the high-pressure crystallography of cordierite. (invited keynote talk)*
- [48] Tagung der Österreichischen Mineralogischen Gesellschaft. Graz, Austria, 16.-19.09.2013. *In very tight places! – Structural transformations of minerals under extreme conditions. (invited keynote talk)*
- [47] Institut für Materialchemie, TU Wien, Vienna, Austria, 12.06.2013 *In very tight places! - Structural transformations of crystalline solids under extreme conditions.*
- [46] ECM-27 satellite workshop "Methods of high-pressure single-crystal X-ray diffraction", Bergen, Norway, 04.08.2012 *Types of diamond-anvil cells and how to work with them.*
- [45] Kolloquium der GdCh, Universität Leipzig, Germany, 02.02.2012, *Structure investigations at extreme conditions - Innovative techniques and new trends.*
- [44] 2011 Meeting of the Swiss Crystallographic Association, Bern, Switzerland, 16.09.2011, *Single-crystal diffraction at extreme conditions - Innovative techniques and new trends. (invited keynote talk)*
- [43] Dipartimento Scienze della Terra, Università degli Studi di Milano, Italy, 07.07.2010, *Phase transformations in high-pressure experiments.*
- [42] European Geoscience Union, General Assembly 2010, Vienna, Austria, 02.-07.05.2010, *Structural control on displacive phase transitions in minerals at high pressures. (invited contribution)*
- [41] Chemisch-Physikalische Gesellschaft, Vienna, Austria, 19.01.2010, *Materialien am Limit? - Moderne Hochdruckforschung unter experimentellen Extrembedingungen.*
- [40] Department of Geological Sciences, University of Michigan, Ann Arbor, U.S.A., 07.12.2009, *Phase transformations in high-pressure experiments.*
- [39] Fakultät für Geowissenschaften, Geographie und Astronomie, Universität Wien, Austria, 24.11.2009, *Stress, Strain und Transformation: Hochdruckbedingungen und ihr Einfluss auf strukturelle Phasenübergänge. (invited lecture)*
- [38] Joint AIRAPT-22 & HPCJ-50 International Conference on High Pressure Science and Technology, Tokyo-Odaiba, Japan, 31.07.2009 *Crystallography of elastic lattice-softening phenomena in silicate structures. (invited contribution)*
- [37] Department Materialwissenschaften, ETH Hönggerberg, Zürich, Switzerland, 24.04.2009, *Relativistic heavy-ion irradiation at high pressures - A new focus of high-pressure research under extreme conditions.*
- [36] IK-Workshop "Multiscale Phenomena in Materials", Fakultät für Physik, Universität Wien, Austria, 12.09.2008, *Phase Transitions under High-Pressure Conditions. (invited lecture)*
- [35] Institute of Modern Physics, Chinese Academy of Sciences, Lanzhou, China, 26.03.2008 *High pressures in experiments - Techniques and applications to matter at extreme conditions.*
- [34] Österreichische Mineralogische Gesellschaft, MinPet2007, Meran, Italy, 18.09.2007 *Relativistic heavy ions - A new focus on high-pressure mineral physics. (invited keynote, cancelled)*
- [33] Fakultät für Geo- und Atmosphärenforschung, Universität Innsbruck, Austria, 26.03.2007: *Mechanisch induzierte Phaseninstabilitäten unter Hochdruckbedingungen - Mineralphysik und Experiment im nichthydrostatischen Paralleluniversum.*
- [32] Graduate School of Science, Kyoto University, Kyoto, Japan, 18.07.2006: *Mechanical instabilities of mineral structures: Phase transitions at high pressures.*
- [31] Institut für Mineralogie und Kristallographie, Wien, Austria, 12.05.2006: *Mechanische Instabilitäten von Mineralstrukturen - Mineralphysik unter Extrembedingungen.*
- [30] Beijing Synchrotron Radiation Facility BSRF, Beijing, China, 14.04.2006: *Single-crystal phase transition: High-pressure crystallography at extreme conditions.*
- [29] Institute of Geology and Geophysics, Chinese Academy of Sciences, Beijing, China, 13.04.2006: *Mechanical instabilities of mineral structures - Mineral physics at extreme conditions.*

- [28] Minerva Foundation School „Frontiers in High Pressure Research“, En-Gedi, Israel, 02.-07.03.2006: *Phase transitions at high pressures and temperatures from single-crystal diffraction (invited lecture)*
- [27] EMU School 2005 „Mineral Behaviour at Extreme Conditions“, Heidelberg, Germany, 24.06.2005: *Diffraction techniques: Shedding light on structural changes.*
- [26] EMU School 2005 „Mineral Behaviour at Extreme Conditions“, Heidelberg, Germany, 20.06.2005: *Mineral structures, defects and their evolution with temperature and pressure.*
- [25] Gesellschaft für Schwerionenforschung (GSI), Darmstadt, Germany, Workshop "Materials Research at FAIR" 08.11.2004: *Mineral physics and mechanical stress fields in geoscience.*
- [24] Departement für Umwelt- und Geowissenschaften, LMU München, Germany, 20.01.2003: *Megabar-Alchemie – Materialentwicklung der Superlative?*
- [23] Institut für Mineralogie und Petrographie, Universität Innsbruck, Austria, 22.03.2002: *Megabar-Alchemie – Materialentwicklung der Superlative?*
- [22] Institut für Kristallographie, Technische Universität München, Germany, 07.12.2001: *Elastische Anomalien bei Mineralen unter hohen Drücken.*
- [21] The Chinese Academy of Sciences, Institute of Geology and Geophysics, Beijing, China, 24.07.2001: *Mineral physics at high pressures.*
- [20] Fachbereich Geowissenschaften/Geographie, Johann-Wolfgang von Goethe-Universität Frankfurt, Germany, 15.11.2000: *Dimension Druck - Neuland in der Welt der Kristallstruktur?*
- [19] Bayerisches Geoinstitut, Universität Bayreuth, Germany, 04.07.2000: *X-ray diffraction at high pressures - a walk on the tightrope or a standard tool?*
- [18] Rigi 2000-Workshop "Messung und Interpretation mechanischer Eigenschaften von Kristallen", Rigi, Switzerland, 10.06.2000: *Compressibility and high-pressure phase transitions in the experiment. (invited lecture)*
- [17] Dipartimento di Science della Terra, Università Perugia, Italy, 17.05.2000: *Compressibility and structural phase transitions - Understanding pressure phenomena.*
- [16] Dipartimento di Science della Terra, Università Perugia, Italy, 16.05.2000: *Diamonds: Experimental windows to the Earth's deep (and dense) interior.*
- [15] Institut für Experimentalphysik, Universität Wien, Austria, 05.05.2000: *Strukturelle Phasenübergänge unter hohen Drücken.*
- [14] Institut für Mineralogie und Petrographie, Universität Innsbruck, Austria, 16.03.2000: *Diamanten als Fenster zum tiefen Erdinneren - Hochdruckforschung im Megabar-Bereich.*
- [13] Naturwissenschaftliche Fakultät, Universität Salzburg, Austria, 24.06.1999: *Elektronenkonfiguration und Druck: Neue Perspektiven für die mineralogische Hochdruck-kristallchemie.*
- [12] Geowissenschaftliche Fakultät, Universität Heidelberg, Germany, 05.02.1999: *Kristallographie unter Extrembedingungen - Neue Perspektiven für das Innere unserer Erde.*
- [11] NATO-Advanced Study Institute: Microscopic Properties and Processes in Minerals - Summerschool, Lucca, Italy, 14.09.1998: *Phase transitions and equations of state. (invited lecture)*
- [10] NATO-Advanced Study Institute: Microscopic Properties and Processes in Minerals - Summerschool, Lucca, Italy, 07.09.1998: *Crystal structures at extremes of pressure and temperature. (invited lecture)*
- [9] Institut für Mineralogie und Petrographie, Universität Hannover, Germany, 19.05.1998: *Kristallstruktur und Kompressibilität - Kristallographie in der geowissenschaftlichen Hochdruckforschung.*
- [8] Österreichische Mineralogische Gesellschaft, Wien, Austria, 26.01.1998: *Diamanten als Fenster zum Erdinneren: Experimentelle Hochdruckforschung in den Geowissenschaften.*
- [7] Institut für Kristallographie, Technische Universität München, Germany, 23.01.1998: *Hochdruckkristallographie am Bayerischen Geoinstitut - Die ersten drei Jahre und was kommt danach?*
- [6] Institut für Mineralogie, Universität Heidelberg, Germany, 03.07.1997: *Kristallstruktur und Kompressibilität - Ein Einblick in die Kristallographie unter hohen Drücken.*

- [5] Institut für Mineralogie, Universität Salzburg, Austria, 18.06.1997: *Kristallstruktur und Kompressibilität - Ein Einblick in die Kristallchemie unter hohen Drücken.*
- [4] Danish Mineralogical Society - Institute of Geology, Department for Mineralogy, University of Copenhagen, Denmark, 14.03.1997: *Compressibility and crystal structure - Implications of crystallography for geoscientific high-pressure research.*
- [3] Institut für Mineralogie, Kristallographie, und Strukturchemie, Technische Universität Wien, Austria, 03.06.1996: *Technische und methodische Aspekte zur Hochdruck in-situ Einkristalldiffraktion in der Diamantstempelzelle.*
- [2] Institut für Mineralogie und Kristallographie, Universität Wien, Austria, 31.05.1996: *In-situ Strukturuntersuchungen unter hohen Drücken - Röntgenbeugung in der Diamantstempelzelle.*
- [1] Bayerisches Geoinstitut, Universität Bayreuth, Germany, 17.03.1993: *Kristallchemische Untersuchungen zeolithartiger Tellurite.*

Public Outreach (Interviews, Press Releases, Information Events)

- [32] 05.06.2019, "Unsere Welt voller Kristalle", Expertentag für die Volksschüler der Albertus-Magnus-Schule, Wien (Präsentation zusammen mit Tamara Djordjevic)
- [31] February 2019, "Extended stability of carbon dioxide above 1 Mbar", ESRF Highlights 2018. Scientific Highlights – Matter at Extremes, page 15
- [30] 01.09.2018 ORF Universum Magazin „Neues Bild der Entstehung von Diamanten“ Ausgabe September 2018, Seite 10
- [29] 01.09.2018 "La Chimia al centro della Terra" unifimagazine of the University of Firenze <http://www.unifimagazine.it/la-chimica-al-centro-della-terra/>
- [28] 15.08.2018 "Kristallines CO₂ im Erdinneren nachgewiesen" Analytic News – das Online Labormagazin <https://www.analytik-news.de/Presse/2018/484.html>
- [27] 13.08.2018 "Festes Kohlendioxid im Erdmantel" prophysik.de – das Physikerportal http://www.prophysik.de/details/news/11092334/Festes_Kohlendioxid_im_Erdmantel.html
- [26] 11.08.2018 "Dwutlenek wglą zdmiewajco trway. Naukowcy zbadali, co si z nim dzieje w gbinach Ziemi" wyborcza.pl, <http://wyborcza.pl/7,75400,23777060,dwutlenek-wegla-zdmiewajaco-trwaly-naukowcy-zbadali-co-sie.html>
- [25] 10.08.2018 "Festes Kohlendioxid 2500 km unter der Erde" solarify.eu – Infoportal von Agentur Zukunft und der Max Planck Gesellschaft <https://www.solarify.eu/2018/08/10/377-festes-kohlendioxid-2-500-km-unter-der-erde/>
- [24] 10.08.2018 "Kohlendioxid kann zu kristallinem Festkörper werden" Der Standard | Wissenschaft | Natur <https://derstandard.at/2000085103565/Kohlendioxid-kann-zu-kristallinem-Festkoerper-werden>
- [23] 10.08.2018 "Neue Messungen zeigen: Entstehung von Diamanten ist noch nicht geklärt" Die Presse | Wissenschaft <https://diepresse.com/home/science/5478505/Neue-Messungen-zeigen-Entstehung-von-Diamanten-ist-noch-nicht>
- [22] 08.08.2018, Nature Research Chemistry Community „Thoughter than expected: carbon dioxide at extremes" <https://chemistrycommunity.nature.com/users/110422-kamil-f-dziubek/posts/37521-tougher-than-expected-carbon-dioxide-at-extremes> (co-authored post by K.F.Dziubek)
- [21] 08.08.2018 "Carbon dioxide keeps solid under deep mantle conditions" Deep Carbon Observatory DCO, <https://deepcarbon.net/carbon-dioxide-stays-solid-under-deep-mantle-conditions>
- [20] 08.08.2018 "CO₂ wird im Erdinneren nicht zwingend zu Diamant und Sauerstoff" stadium.at – Der Online Tutor <https://www.studium.at/co2-wird-im-erdinneren-nicht-zwingend-zu-diamant-und-sauerstoff>
- [19] 08.08.2018 "Festes Kohlendioxid im tiefen Erdmantel" Innovations Report – Forum für Wissenschaft, Industrie, und Wirtschaft <https://www.innovations-report.de/html/berichte/biowissenschaften-chemie/festes-kohlendioxid-im-tiefen-erdinneren.html>
- [18] 08.08.2018 "CO₂ wird im Erdinneren nicht zwingend zu Diamant und Sauerstoff" Tiroler Tageszeitung <http://www.tt.com/home/14676993-91/co2-wird-im-erdinneren-nicht-zwingend-zu-diamant-und-sauerstoff.csp>
- [17] 08.08.2018 "Festes Kohlendioxid im tiefen Erdinneren" Österreich Journal http://www.oe-journal.at/index_up.htm?http://www.oe-journal.at/Aktuelles!/2018/0818/W1/40808AuniWien.htm
- [16] 08.08.2018 "Diamanten gibt Forschern Rätsel auf" Science.ORF.at, <https://science.orf.at/stories/2929038/>
- [15] 08.08.2018 "Festes Kohlendioxid im tiefen Erdmantel – Neue Modelle der Entstehung von Diamanten" APA – Science | N & T http://science.apa.at/rubrik/natur_und_technik/Festes_Kohlendioxid_im_tiefen_Erdinneren_Neue_Modelle_der_Entstehung_von_Diamanten_noetig/SCI_20180808_SCI39471352443770114
- [14] 08.08.2018 "CO₂ wird nicht zwingend zu Diamant und Sauerstoff" Austrian Press Agency – Science | Natur & Technik, https://science.apa.at/rubrik/natur_und_technik/CO2_wird_im_Erdinneren_nicht_zwingend_zu_Diamant_und_Sauerstoff/SCI_20180808_SCI39391351443769708
- [13] 08.08.2018 "Research gives clues to CO₂ trapping underground" ESRF – The European

Synchrotron, esrf.eu <https://www.esrf.eu/home/news/general/content-news/general/research-gives-clues-to-co2-trapping-underground.html>

- [12] 08.08.2018 "Festes Kohlendioxid im tiefen Erdmantel" uni:view – Medienportal der Universität Wien <https://medienportal.univie.ac.at/presse/aktuelle-pressemeldungen/detailansicht/artikel/festes-kohlendioxid-im-tiefen-erdinneren/> <https://idw-online.de/de/news?print=1&id=700424>
- [11] 26.11.2014 uni:view Magazin „Unsere Kristallographie (Teil 3)“ IYCr Dossier zum Jahr der Kristallographie
- [10] 24.11.2014 uni:view Magazin „Unsere Kristallographie (Teil 2)“ IYCr Dossier zum Jahr der Kristallographie
- [9] 11.11.2014 uni:view Magazin „Unsere Kristallographie (Teil 1)“ IYCr Dossier zum Jahr der Kristallographie
- [8] 17.09.2014 Ö1, "Dimensionen - die Welt der Wissenschaft", 19:05 (Interview zum Beitrag „Die diamanterne Dienerin – eine kleine Wertschätzung der Kristallographie“ anlässlich des IYCr2014)
- [7] 02.09.2014 uni:view Magazin „Mit kristallographischen News zurück aus Kanada“
- [6] 06.03.2014 Ö1, "Wissen aktuell", (Kristalle in der Medizin - Interview zur Bedeutung der kristallographischen Forschung anlässlich des „Jahres der Kristallographie“ IYCr2014)
- [5] 09.12.2011 Ö1, "Dimensionen - die Welt der Wissenschaft", 19:05 (Interview zu Quasikristallen anlässlich der Nobelpreisverleihung 2011)
- [4] 11.10.2011 Ö1, "Abendjournal", 22:00 (Telefoninterview zum Nobelpreis für Chemie)
- [3] 23.03.2007 Radio Regenbogen "Campus Report" (Interview)
- [2] 02.02.2007 "Wo Diamanten kräftig gedrückt werden", Marion Gottlob, Rhein-Neckar Zeitung,
- [1] 10.10.2003 "Mit zwei Diamanten ins Innere von Erde und Jupiter", SWR UniForum "Wissenschaft erleben - Globalisierung", Südwestrundfunk & Universität Heidelberg