

- (278) 42. Hagener Symposium 2024 Pulvermetallurgie, Hagen, 28 - 29 November 2024
- (277) European School of Magnetism (ESM 2024 - Magnetism for energy efficient devices), York, UK, August 2024
- (276) 3<sup>rd</sup> EMFL School - Science in High Magnetic Fields, 15 - 19 April 2024, Dresden
- (275) *Sustainability of permanent magnets for e-mobility and wind power: reduction, substitution, recycling of rare earths*, IRTC Conference 2024 Raw Materials for a Sustainable Future, Turino, Italy, 21-23 February 2024
- (274) VIII Conference of the Italian Association of Magnetism (AIMAGN) Magnet-2024, 7-9 February 2024 in Milano
- (273) *Multicaloric materials for an exploiting hysteresis cooling cycle*, Dresden Days on Magnetocalorics, 13-14 November 2023
- (272) *Sustainability of tomorrow's magnets and their applications*, Magnetic Materials and Applications 2023, UK Magnetic Society, 7-9 November 2023, Hanau
- (271) *Nachhaltigkeit von Permanentmagneten für die E-Mobilität und Windkraft: Reduktion, Substitution, Recycling von Seltenen Erden*, acatech –Themenkonferenz „Werkstoffe – Wertstoffe – Rohstoffe. Beitrag von kreislauffähigen Werkstoffsystemen zu einer resilienten und nachhaltigen Rohstoffversorgung“, 07.11.2023 in München
- (270) *Sustainability of permanent magnets for e-mobility and wind power: reduction, substitution, recycling of rare earths*, 9. Ruhr-Symposium zum Thema Functional Materials in a Circular Economy, 17.10.2023 in Duisburg
- (269) *Sustainability of tomorrow's permanent magnets and their applications*, REPM 2023, Birmingham, UK,
- (268) *Hysteresis Design of Magnetic Materials for Efficient Energy Conversion*, JEMS 2023 Plenary talk - Givord (EMA) Award lecture, Madrid, Spain, 30 August 2023
- (267) *Hysteresis Design of Magnetic Materials for Efficient Energy Conversion*, Trends in Magnetism Conference, Örebro, Sweden, 12-16 June 2023
- (266) *Hysteresis Design of Magnetic Materials for Efficient Energy conversion*, Daido Steel Workshop, Nagoya, Japan, 24 May 2023
- (265) *Perspectives on Magnetic Functional Materials*, Toyota Workshop: Magnets for Electromobility, Tokyo, Japan, 22 May 2023
- (264) *Caloric Materials and Devices*, MRS Spring Meeting, Tutorial at Symposium EN03-Caloric Materials for Heating and Cooling, 27 April 2023
- (263) *The more we cool, the warmer it gets – Energieeffiziente, nachhaltige Kühlung basierend auf dem magnetokalorischen Effekt*, Audi in Q-Akademie „Werkstoffliche Schlüsselthemen der Mobilität von Morgen“, 10 March 2023
- (262) *Advanced magnetic materials for efficient energy, transport and cooling applications*, IEEE AIM2023 Conference, Advances in Magnetism, Moena (Trento), Italy, 15-18 January 2023, Plenary talk
- (261) *Advanced magnetic materials for efficient energy, transport and cooling applications*, LITEN Days, Accelerating the transition to sustainable energy through innovation, CEA Grenoble, 30 November – 1 December 2022
- (260) Rare Earth Industry Association (REIA) annual conference: Rare Earths for a sustainable world; *Circular economy panel discussion - The bottlenecks and opportunities for an efficient recycling loop of permanent magnets*, 6-7 October 2022 Hanau
- (259) *Magnetic materials for efficient energy conversion*, 3NANO-22 Nano Science/Technology/Biotechnology conference, 20 September 2022, Rome
- (258) *The Energy transition is a material transition*, Physics for Sustainable Development, International Union of Pure and Applied Physics (IUPAP) within International Year of Basic Sciences for Sustainable Development (IYBSSD) proclaimed by UNESCO, 19 September 2022, Rome

- (257) *Hysteresis Design of Magnetic Materials for Efficient Energy Conversion*, DPG Sektion Kondensierte Materie (SKM), Symposium "United Kingdom as Guest of Honor", DPG Tagung in Regensburg, 4-9 September 2022
- (256) *Advanced magnetic materials for efficient energy, transport and cooling applications*, 12<sup>th</sup> International Conference on Magnetic and Superconducting Materials (MSM22), plenary talk, Duisburg, 29 August 2022
- (255) *Multicaloric Heusler compounds: Review and Prospects*, CIMTEC 2020, Montecatini, Italy, 26 June 2022
- (254) *Magnetic materials for efficient energy conversion*, AIMagn Colloquium, Associazione Italiana di Magnetismo, Parma, Italy, 26 May 2022
- (253) *Magnetic materials for efficient energy conversion*, The Wonderful World of Materials – from Ångström to MAX, Inauguration New Ångström Laboratory Uppsala, Sweden, 18 May 2022
- (252) *The cold chain – from magnetocaloric materials to cool fridges*, DPG-Industriegespräche 16. Mai 2022, Justus Liebig Universität Gießen
- (251) *Magnetwerkstoffe für die Elektromobilität – Permanentmagnete*, Audi in Q-Akademie „Werkstoffliche Schlüsselthemen der Mobilität von Morgen“, 29. April 2022, online
- (250) *Potential of high-entropy alloys for hard and soft magnets*, DGM Workshop Functional High Entropy Alloys, Ruhr-University Bochum, 29 March 2022
- (249) *Magnetic materials for efficient energy conversion*, Colloquium Ruhr-University Bochum, 27 January 2022
- (248) *Magnetic materials for efficient energy conversion*, <sup>3</sup>Nano Webinar, Nano Science/ Technology/ Biotechnology, 2<sup>nd</sup> of December 2021
- (247) *Towards circular economy in electro mobility*, 2021 MRS Fall Meeting, Symposium- Materials for Sustainable Electronics, Boston, Massachusetts
- (246) *Magnetic materials for efficient energy conversion*, 3<sup>rd</sup> Materials Chain International Conference – MCIC 2021: Materials Discovery and Processing for Energy, 22-23 November 2021, Bochum
- (245) *Hessen schafft Wissen, Wissenschaft und Forschung in Hessen – Menschen und Projekte*, Video, November 2021, <https://www.hessen-schafft-wissen.de/artikel/science-reporter-funktionale-materialien>.
- (244) *Suscritmat - MOOC on Sustainable Management of Critical Raw Materials; Video Module on Substitution* October 2021, to be released.
- (243) *CRC/TR270 - Hysterese-Design magnetischer Materialien für effiziente Energieumwandlung*, DPG Physikerinnentagung, Arbeitskreis Chancengleichheit (AKC) 8-11 November 2021
- (242) *Resource-efficient design and manufacturing of rare earth permanent magnets*, Sustainable Materials for Future Mobility, EIT Raw Materials Expert Forum, 14<sup>th</sup> of October 2021
- (241) *Die Energiewende ist eine Materialwende*, Odenwald-Akademie, Die Rathausvorträge, Public evening lecture, Michelstadt, October 7, 2021. <https://www.odenwald-akademie.de/event/die-energiewende-ist-eine-materialwende/>
- (240) *Magnets for energy conversion - State of the art*, Plenary Opening Lecture International workshop on Functional MAX-materials (2nd FunMax), September 14-17, 2021. Krasnoyarsk, Russia.
- (239) *Lectures on (1) Strategic materials in the energy transition, (2) Permanent magnets for efficient energy conversion, (3) Magneto (and multi-)caloric materials for efficient refrigeration*, European School on Magnetism ESM, Cluj-Napoca, Romania, 6-17 September 2021. <http://magnetism.eu/210-esm-2021-lecture-recording.htm>
- (238) *Searching for perfect defects - challenging the Brown's paradox in permanent magnetism*, Keynote Opening Lecture, REPM 2021, 26<sup>th</sup> Intl. Workshop on "Rare Earth and Future Permanent Magnets and Their Applications", Baltimore, USA, online conference, 7 June 2021
- (237) *Hysteresis and reversibility in multicaloric materials*, Plenary Talk, Thermag IX, University of Maryland, College Park, online conference, 8 June 2021

- (236) *Hysteresis design of magnetic materials for efficient energy conversion*, European Magnetism Association EMA Plenary Talk, 20 May 2021, online.  
<http://magnetism.eu/184-recordings-of-ema-plenary-lectures-2021.htm#par1695>
- (235) *Magnetic refrigeration: From fundamentals to applications*, InterMag 2020, tutorial lecture TU-01 in “Magnetism and the Environment”, Montreal, Canada, April 27 2021. Underline Science Inc. Available from: <https://underline.io/16715-tu-01---magnetic-refrigeration-from-fundamentals-to-applications>; doi: 10.48448/qews-t382
- (234) *Magnetic refrigeration – substitution on element, process and product levels*, Int. Conf. Resource Chemistry, March 2021, Hanau, online.
- (233) *Die Energiewende ist eine Materialwende*, Universität Duisburg-Essen, Energy Science Lecture Series, 2 February 2021
- (232) *Hysteresis design of magnetic materials for efficient energy conversion*, MSJ Web Conference, Japan, 16 December 2020
- (231) *Hysteresis design of magnetic materials for efficient energy conversion*, SPP 1959 Summer School, September 2020, online.
- (230) *Overview of Permanent Magnets: Current Challenges and Future Prospects*, Plenary Talk, CMD2020GEFES, Madrid, Spain, September 1, 2020 – online
- (229) Industrial Conclave on Permanent Magnets and Exchange Spring magnets, UK Magnetic Society, Exeter 24 July 2020, online
- (228) *Hysteresis Design of Magnetic Materials for Efficient Energy Conversion*, Spin+X (SFB/TRR 173) Distinguished Lecture Series, 15 June 2020, on-line
- (227) *We need perfect defects - challenging the Brown's paradox in permanent magnetism*, Monash University Melbourne, Australia, October 29, 2019
- (226) Public evening lecture *The element 60 – Neodymium: from critical metals to power-magnets for renewable energy*, JEMS 2019, Uppsala, Sweden, August 26-30, 2019.
- (225) *Hysteresis Design of Magnetic Materials for Efficient Energy Conversion*, Plenary talk at the Joint European Magnetic Symposia, JEMS 2019, Uppsala, Sweden, August 26-30, 2019.
- (224) Körber Stiftung Gespräch *Forscher Fragen: Das Element 60*, 27. Juni 2019, Hamburg, <https://www.koerber-stiftung.de/veranstaltungsuebersicht/forscher-fragen-das-element-60-2655>
- (223) KIC EIT Raw Materials Summit, *Advanced Materials: Enablers for Disruptive Innovation – Magnetic Refrigeration*, Berlin, 21 May 2019
- (222) *Grundlagen der Festkörperbasierten Kühlung*, Kalorik-Workshop 2019: Festkörperbasiertes Kühlen und Heizen am Fraunhofer IPM, Freiburg, 27 March 2019
- (221) *Advanced functional recycling of high performance rare earth permanent magnets*, 28th ATC 2019: Industrial Inorganic Chemistry - Materials and Processes, Frankfurt am Main, 21 - 22 February 2019
- (220) *Heavy rare earth free, free rare earth and rare earth free magnets - vision and reality*, DEMETER Concluding Symposium on Rare-earth permanent magnet motors and the e-mobility revolution, 5-7 February 2019, Leuven, Belgium
- (219) *Rare earth high performance magnets for energy applications: Demand, sustainability and the reality of alternatives*, Seminar at the Institute of Materials at Ecole Polytechnique Fédérale de Lausanne (EPFL), 19 November 2018
- (218) *Hochleistungsdauermagnete – Neuentwicklungen auf Material- und Prozessebene*, FEMAG Anwendertreffen, Friedrichshafen, 14-15 November 2018
- (217) *Magnetic cooling: from fundamentals to applications*, EU KIC Raw Materials E-drive event: Sustainable Materials for Future Mobility: E-drives. Magnets. Batteries; 23.-24. October 2018 in Darmstadt
- (216) *Towards deciphering the DNA of hysteresis in magnetic materials*, Plenary talk at the NIMS Award Symposium on October 15, Tokyo, Japan
- (215) *Rare earth high performance magnets for energy applications: Demand, sustainability and the reality of alternatives*, MSE 2018 Congress, Darmstadt, Plenary talk, September 2018

- (214) *Heavy rare earth free, free rare earth and rare earth free magnets - vision and reality*, Rare Earth Permanent Magnets and Advanced Magnetic Materials and Their Applications (REPM 2018), Beijing, August 26-30, 2018.
- (213) *Sauberes Wasser, seltene Rohstoffe, schneller Klimawandel – sind globale Konflikte vorprogrammiert?*, Öffentliche Podiumsdiskussion TU Darmstadt *hellwach*, 10 June 2018
- (212) *Heavy rare earth free, free rare earth and rare earth free magnets - vision and reality*, Workshop: Future Perspectives on Novel Magnetic Materials, Santorini, May 29-June 3, 2018
- (211) *Heavy rare earth free, free rare earth and rare earth free magnets - vision and reality*, Symposium "Novel hard magnetic materials and their applications" at INTERMAG 2018, Singapore, April 2018
- (210) *We need perfect defects - challenging the Brown's paradox in permanent magnetism*, DPG Frühjahrstagung 2018, Topical Session "Magnetism in Materials Science- Thermodynamics, Kinetics and Defects", Berlin, March 2018
- (209) *Magnetokalorische Kühlung*, Forschungsrat Kältetechnik, 22 February 2018, Frankfurt
- (208) *Magnets as enablers for renewable energy and resource efficiency*, University of Parma, Italy, 14 December 2017
- (207) *Magnets as enablers for renewable energy and resource efficiency*, Physikalisches Kolloquium, Universität Luxemburg, 29 November 2017
- (206) *Magnets as enablers for renewable energy and resource efficiency*, Physikalisches Kolloquium, Universität Freiburg, 20 November 2017
- (205) IHK Rheinland-Pfalz, Koblenz, Seminar Innovative Werkstoffe, 15 November 2017
- (204) *Substitution of Critical Elements in Magnetic Materials*, MagMatApp'17: Magnetic Materials for the Optimisation of Motors, Generators and other Advanced Applications, UK Magnetics Society Seminar in Hanau, October 4-5 2017
- (203) *Magnets as enablers for renewable energy and resource efficiency*, Plenary lecture at FEMS EUROMAT 2017 Conference in Thessaloniki, 17-22 September 2017
- (202) *Magnets as enablers for renewable energy and resource efficiency*, Plenary lecture at International Baltic Conference on Magnetism (IBCM 2017), August 20–24, 2017, Svetlogorsk/Kaliningrad, Russia
- (201) *Functional magnetic materials for energy applications*, lectures at 2017 IEEE Magnetics Society Summer School, Santander, Spain, 21 June 2017
- (200) *Energy applications of magnetism*, CIC nanoGUNE, San Sebastian, Spain, 19 June 2017
- (199) *Rare Earth Re-Use and Recycling*, EMRS 2017, Workshop: Materials for Decarbonized Circular Economy, 24 May 2017, Strasbourg,
- (198) *Magnets as enablers for renewable energy and resource efficiency*, Intermag April 24-28, 2017, Dublin, Ireland, Symposium "Smart City Smart Living"
- (197) *Rare Earth Re-Use and Recycling*, Nato Science and Technology Lecture Series 285 on "Rare Earths: Securing Supply Chains, Materials and Technologies, Munich, 16-17 March 2017
- (196) *Free rare earth or rare earth free magnets - vision and reality*, Intl. Workshop CNRS Néel-NIMS for Nanosciences, Tsukuba, Japan, 24 March 2017
- (195) *More than an interesting oddity - Mastering hysteresis in magnetic materials*, Intl. Workshop on Hysteresis in Magnetocaloric, Electrocaloric and Elastocaloric Refrigeration, February 7 - 10, 2017, Dresden.
- (194) *Die Bedeutung der Kritikalität von Ressourcen für Zukunftstechnologien*, Hessischen Ressourceneffizienz Kongress Frankfurt, 16 November 2016
- (193) *From (urban) mine to magnet*, KTH Royal Institute of Technology Stockholm, "Materials Dialogue", 10 November 2016
- (192) *Mastering hysteresis in magnetocaloric materials*, Thermag 2016 Conference, Plenary talk, Turino, Italy, 12 September 2016
- (191) *From mine to magnet*, JEMS 2016 Conference, Plenary tutorial, Glasgow, UK, 26 August 2016

- (190) *Future need for atomic-scale - in-operando- multiple external stimuli characterization of magnetic materials*, Workshop on Future Directions in TEM at Ernst Ruska Center Jülich, Germany, 13-15 July 2016
- (189) *Re-thinking rare earth magnets for energy applications: Demand, sustainability and the reality of alternatives*, Paul Scherrer Institute PSI, Villigen, Switzerland, 1. July 2016
- (188) *Permanentmagnete und Seltene Erden im 21. Jahrhundert*, Fraunhofer-Fachtagung „Magnetwerkstoffe und Seltene Erden“, 28. Juni 2016 Hanau
- (187) *Heusler alloys for solid state refrigeration*, CIMTEC 2015 Conference, Perugia, Italy, 6-10 June 2016
- (186) *Re-thinking rare earth magnets for energy applications: Demand, sustainability and the reality of alternatives*, Max Planck Institut für Eisenforschung Düsseldorf, 12. April 2016
- (185) *Re-thinking rare earth magnets for energy applications: Demand, sustainability and the reality of alternatives*, IEEE Advances in Magnetism Conference AIM, Bormio, Italy March 14-16 2016
- (184) *Mastering hysteresis in magnetocaloric materials*, Royal Society Discussion Meeting London, 8-9 February 2016
- (183) *Re-thinking rare earth magnets for energy applications: Demand, sustainability and the reality of alternatives*, Westfälische Wilhelms-Universität Münster, 4 February 2016
- (182) *Magnetic Materials for Green Technologies*, Universität Duisburg Essen, 27 January 2016
- (181) *Magnetic Materials for Green Technologies*, Johannes Gutenberg Universität Mainz, 19 January 2016
- (180) *Magnets for energy conversion and harvesting*, Plenary Evening Talk, Joint MMM-Intermag Conference, San Diego, USA, 12-16 January 2016
- (179) *Synergetic optimization of magnetic refrigerant and cooling system*, Delft Days on Magneto Calorics DDMC 2015, TU Delft, November 2-3 2015
- (178) *Magnetic Materials for Green Technologies*, Plenary Talk at ICM 2015, Barcelona, Spain, July 5-10, 2015
- (177) *Improving the magnetic properties of Nd-Fe-B permanent magnets by grain boundary diffusion processes (GBDP)*, ESICMM-G8 Symposium on Next Generation Permanent Magnets, NIMS Tsukuba, Japan, June 18 - 19, 2015
- (176) *Magnetic refrigeration – from fundamentals to applications*, Institute for Energy technology (IFE), Oslo, Norway, 11 June 2015
- (175) *Re-thinking rare earths: Demand, sustainability and the reality of alternatives in magnetic materials*, Key note talk at Energy, Science and Technology 2015 - International Conference, Karlsruhe, 22 May 2015
- (174) *Zur Substitution von NdFeB: Möglichkeiten Grenzen, Perspektiven*, Industrieworkshop Fraunhofer Leitprojekt Seltene Erden, Bremen, 19 May 2015
- (173) *Magnetische Kühlung: Grundlagen und Anwendung*, Workshop Materialien für die Energietechnik – Magnetwerkstoffe, Dresden, 22 April 2015
- (172) *Magnetic Materials for Green Technologies*, Plenary Talk at Spring meeting 2015 of the German Physical Society (DPG), Berlin, 17.03.2014
- (171) *Novel magnetic materials for motors, actuators and sensors*, Symposium on Magnetoresistive Sensors and Magnetic Systems, Wetzlar, 3-4 March 2015
- (170) *Magnetic refrigeration – from fundamentals to applications*, Solvay Technologietag zur magnetischen Kühlung, Hannover, 12.11.2014
- (169) *Magnets for Green Technologies*, MSE Conference, Darmstadt, 24.09.2014
- (168) *Re-thinking rare earths: Demand, sustainability and the reality of alternatives*, Plenary talk at REPM 2014, Annapolis, USA, 18.08.2014

- (167) *Ressourceneffizienz – eine Begriffsdefinition am Beispiel Seltener Erden für Energiematerialien*, 5. PIUS-Länderkonferenz 2014 (Produktionsintegrierter Umweltschutz (PIUS) und Ressourceneffizienz) organisiert durch das Hessische Wirtschaftsministeriums in Kooperation mit den Ländern NRW, Rheinland-Pfalz sowie Baden-Württemberg, Frankfurt/M, 01.07.2014
- (166) *Re-thinking rare earths: Demand, sustainability and the reality of alternatives*, CWIEME 2014 (international coil winding, insulation & electrical manufacturing exhibition), 24.6.2014, Berlin
- (165) *Magnetic Materials for Green Energy Applications*, CIMTEC 2014, 16.6.2014, Montecatini, Italy
- (164) *Ressourceneffizienz am Beispiel Seltener Erden für Energiematerialien*, Zukunftsmesse Leben 3.0, Flughafen Frankfurt, 14.05.2014
- (163) *Kritische Materialressourcen bei Magneten für Energietechnologien*, Klausurtagung des Fachbereichs Chemie an der TU Darmstadt, 25.04.2014
- (162) *Magnetic Materials for Green Energy Applications*, Jahrestagung der Deutschen Physikalischen Gesellschaft DPG, Dresden, 30.03. 2014
- (161) *Magnetic Materials for Energy Applications*, International Conference on NdFeB Magnets: Supply Chain, Critical Properties & Applications, Ningbo, China, March 2-5, 2014.
- (160) *Advanced Materials zur effizienten Nutzung von Energie und Rohstoffen, 6. Darmstädter Energiekonferenz, Darmstadt, 27.02.2014*
- (159) *Materialkritikalitäten im Magnetismus*, Dechema, Diskussionstagung Anorganisch-Technische Chemie, Frankfurt, 20.02.2014
- (158) *Permanent magnets for energy applications*, Lecture at the Italian School of Magnetism, Parma, 13.02.2014
- (157) *Kritische Materialressourcen bei Magneten für Energietechnologien*, Sonderkolloquium der DECHEMA „Stehen wir bald mit leeren Händen da? Der Raubbau an unserer Erde gestern und heute“, Frankfurt, 23.01.2014
- (156) *Kritische Materialressourcen bei Magneten für Energietechnologien*, DPG Industriegespräche in Mittelhessen, Justus-Liebig-Universität Giessen, 13.01.2014
- (155) *Magnetokalorische Materialien und deren Anwendung*, Tagung des Deutschen Kälte- und Klimatechnischen Vereins (DKV), Hannover, 21. 11.2013
- (154) *Magnets for Green Energy Technologies*, EU COST – Conference on Materials in a Resource Constrained World, Delft, NL, 18 - 20 November 2013
- (153) *Recent developments in magnetocaloric materials*, Magnetocaloric Days at University of Delft, 28-29 November 2013
- (152) *Material criticalities in magnetism*, 5<sup>th</sup> Seeheim Conference on Magnetism, Frankfurt, Germany, September 29<sup>th</sup> – October 3<sup>rd</sup> 2013
- (151) *Material criticalities in magnetism*, 5<sup>th</sup> Chemical Sciences and Society Symposium (CS3) Meeting “Efficient Utilization of Elements”, 16.-19. September 2013 in Tokyo, Japan
- (150) *Material criticalities in magnetism*, Inaugural lecture guest professorship at NIMTE, CAS, Ningbo, China, 11<sup>th</sup> September 2013
- (149) *Recent developments in magnetocaloric materials*, Workshop on Energy and Materials Criticality Santorini, Greece, 22-25 August 2013
- (148) *Material criticalities in magnetism*, Workshop on Energy and Materials Criticality Santorini, Greece, 22-25 August 2013
- (147) *Material criticalities in magnetism*, University of Cambridge, 19 June 2013, Gordon Seminar at the The Armourers and Brasiers' Cambridge Forum 2013, UK
- (146) *Rare earth and rare earth free future permanent magnets for energy applications*, 9<sup>th</sup> International Symposium on Hysteresis Modelling and Micromagnetics (HMM 2013), Sicily, May 2013

- (145) *Giant Magnetocaloric Effect Driven by Structural Transitions*, MRS Spring meeting April 2013, San Francisco
- (144) *Lectures on Resources and Permanent Magnets for Energy Applications*, European Magnetism School Corsica, February 2013
- (143) *Rare earth and rare earth free future permanent magnets for energy applications*, Italian Magnetism Conference, February 2013
- (142) *Rare earth and rare earth free future permanent magnets for energy applications*, Joint Intermag-MMM Conference Chicago, January 2013
- (141) *Die Bedeutung der Kritikalität von Ressourcen für Zukunftstechnologien*, Akademisches Viertel, TU Darmstadt, 05.12.12
- (140) *Magnetokalorische Materialien – Herstellung und Einsatzmöglichkeiten*, Materialforum Rhein-Main, Organizer: DGM and Materials Valley, Hanau, 03.10.12
- (139) *Magnetic materials in sustainable energy*, Materials Day, Ruhr-Universität Bochum, 08.11.12
- (138) *Rare earth elements for energy applications and the role of REE magnets*, KU Leuven, Kick-off IRF Knowledge Platform Rare<sup>3</sup>, 05.10.2012
- (137) *Einsatz Dy-reduzierter/Dy-freier Magnettechnologien*, Bayern Innovativ Cluster Meeting, Würzburg, 19.07.2012
- (136) *Rare Earth Elements for Energy Applications - Challenges for Research and Policy Makers*, European Raw Materials Group, Brussels, 10.07.2012
- (135) *Magnetic materials in sustainable energy*, Seagate Conclave Belfast, 18.06.2012
- (134) *Material criticalities in permanent magnetism*, Brose Fahrzeugteile Würzburg, 17.04.12
- (133) *Material criticalities in magnetism*, Workshop on Rare Earth Permanent Magnets, NIMS Tsukuba, 30.03.12
- (132) *Beyond NdFeB sintered magnets*, The 2<sup>nd</sup> Trilateral US-Japan-EU Conference on Critical Materials, Tokyo, 29.03.12
- (131) *Interfacial characterization in NdFeB permanent magnets*, TMS 2012, Orlando, 13.03.12
- (130) *Advanced processing and microstructure of high performance permanent magnets*, TMS 2012, Orlando, 12.03.12
- (129) *Magnetic materials in sustainable energy*, APS meeting 2012, Boston, 02.03.2012
- (128) *Material criticalities in magnetism*, Annual Reception, Leibniz IFW Dresden, Dresden, 29.02.2012
- (127) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, University of Birmingham, UK, 16.12.2011
- (126) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, University of Sheffield, UK, 14.12.2011
- (125) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, University of York, UK, 13.12.2011
- (124) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, Christian-Albrechts-Universität Kiel, 12.12.2011
- (123) *Permanentmagnete für die Anwendung in leistungsstarken Elektromotoren*, 2. Dresdner Werkstoffsymposium, TU Dresden, 08.12.2011
- (122) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, University of Barcelona, Spain, 01.12.2011
- (121) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, Instituto de Ciencia de Materiales, Madrid, Spain, 29.11.2011
- (120) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, University of Bilbao, Spain, 28.11.2011

- (119) *Definition und Auswahl von spezifikationsrelevanten Prüfungen für die Entwicklung und Serienüberwachung von Hochleistungspermanentmagneten*, FVA-Informationstagung zur Elektromobilität, 24.11.2011, Würzburg
- (118) *Material criticalities in magnetism*, EU-Japan Expert's Workshop on critical materials, 21.11.2011, Tokyo (Video Talk)
- (117) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, Iowa State University/Ames National Laboratory, USA, 11.11.2011
- (116) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, University of Minneapolis, AZ, USA, 10.11.2011
- (115) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, Lawrence Berkeley National Laboratory, CA, USA, 09.11.2011
- (114) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, Western Digital, San Jose, CA, USA, 08.11.2011
- (113) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, University of California, Davis, USA, 07.11.2011
- (112) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, University of Colorado, Colorado Springs, USA, 04.11.2011
- (111) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, University of Colorado, Boulder, USA, 04.11.2011
- (110) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, University of Alabama, USA, 28.10.2011
- (109) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, Imperial College London, UK, 21.09.2011
- (108) *Hochleistungspermanentmagnete für die Anwendung in leistungsstarken Elektromotoren*, E-Motive Symposium Aachen, 07.09.2011
- (107) *Li-based complex hydrides for solid state hydrogen storage and batteries*, TU Bergakademie Freiberg, 19.08.2011
- (106) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, TU Ilmenau, 12.07.2011
- (105) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, Keynote at ISMANAM Conference in Gijon, 28.06.2011
- (104) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, Prague, Academy of Science, Institute of Physics, Czech Republic, 14.06.2011
- (103) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, Ruhr University Bochum, 09.06.2011
- (102) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, New Orleans, USA, IEEE Summer School, 27.05.2011
- (101) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, Institute of Physics, Beijing, Chinese Academy of Science, China, 11.05.2011
- (100) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, Shenyang, Institute of Metal Research, Chinese Academy of Science, China, 10.05.2011
- (99) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, Jiaotong University, Xian, China, 09.05.2011
- (98) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, Zhejiang University, Hangzhou, China, 06.05.2011
- (97) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, NIMTE Institute, Ningbo, Chinese Academy of Science, China, 05.05.2011

- (96) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, National Taiwan University, Taipei, Taiwan, 03.05.2011
- (95) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, National Tsing-Hua University, HsinChu, Taiwan, 02.05.2011
- (94) *NdFeB thick films as model high performance magnets*, Intermag Conference 2011, Symposium: high performance motors and magnetic materials, Taipei, Taiwan, 29.05.2011
- (93) *Round table discussion: Permanent magnets*, Intermag Conference 2011, Symposium: high performance motors and magnetic materials, Taipei, Taiwan, 25.05.2011
- (92) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, CNRS Grenoble, 23.03.2011
- (91) *Novel approaches to microstructural characterisation in NdFeB materials*, TMS Annual Meeting, Symposium on Magnetic Materials for Energy Applications, San Diego, USA, 27.2-3.3.11
- (90) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, Dep. of Electrical and Electronic Engineering, Nagasaki University, Japan, 04.02.2011
- (89) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, Hitachi Metals - Neomax, Osaka, Japan, 03.02.2011
- (88) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, Hitachi Advanced Research Labs, Hatayama, Japan, 01.02.2011
- (87) *Magnetic materials in sustainable energy*, IEEE Magnetics Society Distinguished Lecture Series 2011, National Institute of Material Science (NIMS), Tsukuba, Japan, 27.01.2011
- (86) *Struktur und Funktionalität von magnetischen Hochleistungswerkstoffen*, Werkstoff-physikalisches Kolloquium, RWTH Aachen, 11.01.2011
- (85) *Magnetische Kühlung: Material-und Prototypenentwicklung*, Dresdener Werkstoffsymposium „Werkstoffe der Energietechnik“, 9-10 December 2010
- (84) *Adiabatic temperature change and magneto-volume effect in La-Fe-Si bulk, melt-spun and hydrogenated compounds*, MRS Fall meeting 2010, Boston, 28.11.2010-03.12.2010
- (83) *Challenges for the implementation of magnetocaloric materials*, C-MAC Industry Days, Max Planck Institute for Chemical Physics of Solids Dresden, 15-16 November 2010
- (82) *Giant magnetocaloric effect in La(FeSi)<sub>13</sub> - from fundamentals towards application*, 22 November 2010, Risø National Laboratory for Sustainable Energy, Roskilde, DK
- (81) *Materials for Energy Efficiency*, Cusanus Werk, Fachschaftstagung Physik, 16.10.2010, Dresden
- (80) *Novel approaches to microstructural characterisation of NdFeB materials*, 21<sup>st</sup> Int. Workshop on Rare Earth Magnets and their Applications, Bled, Slovenia, 29.08.-02.09.2010
- (79) *La(Fe,Si)<sub>13</sub> alloys for solid state energy efficient cooling*, 21<sup>st</sup> Int. Workshop on Rare Earth Magnets and their Applications, Bled, Slovenia, 29.08.-02.09.2010
- (78) *Recent progress of magnetic shape memory composites*, JEMS 2010, Cracow, 23-28 August 2010
- (77) *Magnetism for Energy*, IEEE Magnetics Society Summer School, Dresden, 15.08.-21.08.2010
- (76) *Solid state energy efficient magnetic cooling – novel magnetocaloric materials*, Gordon Research Conference *Magnetic Nanostructures*, August 8-13, 2010, Bates College, ME, USA
- (75) *Tuning magnets and hydrides on the nanoscale – advanced materials for energy conversion and storage*, University of Konstanz, 16. 07.2010
- (74) *Materials for energy applications*, 3<sup>rd</sup> COSY Young Researchers Workshop on “Functional Materials for Energy Applications: beyond Solid State Hydrogen Storage”, Dresden, 09.06.2010

- (73) *Magnetic materials and hydrides for energy efficient technology*, Siemens-Erlangen, 19.03.2010
- (72) *Wasserstoff in der physikalischen Metallkunde, 31. Adelbodener Werkstoffseminar der Universität Karlsruhe*, Schweiz, 10 March 2010
- (71) *Magnetic materials and hydrides for energy efficient technology*, TU Darmstadt, 02.02.2010
- (70) *Magnetwerkstoffe für moderne Kühltechnik*, Workshop Ideas to Market, Dresdner Materialinnovationen, 15. January 2010
- (69) *Advanced permanent magnets for energy applications*, UK Magnetics Society, Workshop on Advanced Magnetic Materials and their Appl., Hanau, Vacuumschmelze GmbH, 13.10.2009
- (68) *Novel materials for solid state energy efficient magnetic cooling*, UK Magnetics Society, Workshop on Advanced Magnetic Materials and their Appl., Hanau, Vacuumschmelze GmbH, 12.10.2009
- (67) *Novel materials for room temperature magnetic cooling*, 1<sup>st</sup> Int. Conf. on Complex Metallic Alloys and their Complexity (C-MAC-1), Institut Jean Lamour, Nancy 4<sup>th</sup> – 7<sup>th</sup> October 2009
- (66) *Magnetic materials and hydrides for energy efficient technology*, TU Hamburg-Harburg, 29.09.2009
- (65) *Novel magnetic materials for energy applications*, 11<sup>th</sup> Int. Conf. on Advanced Materials (ICAM 2009), Rio de Janeiro, 20-25 September 2009
- (64) *HDDR processing of NdFeB*, Int. Workshop on Materials for a Sustainable Future, University of Birmingham, UK, 11 September 2009
- (63) *Solid state energy efficient magnetic cooling and heating*, Royal Institution of Great Britain, London, 7 September 2009
- (62) *Novel materials for energy efficient technologies*, Instituto de Ciencia de Materiales de Sevilla, Sevilla/ Spanien, 26.5.2009
- (61) *Advanced permanent magnets, Symposium on Magnetism for Sustainable Energy*, InterMag 2009, Sacramento/ USA, 4.-8.5.2009
- (60) *NiMnGa-fibres and NiMnGa-polymer composites*, Int. Conf. on Active/Smart Materials, Madurai/ India, 7.-9.1. 2009
- (59) *NiMnGa-fibres and NiMnGa-polymer composites*, Dep. of Physics at IIT Bombay/ India, 12.1. 2009
- (58) *Advanced energy efficient materials - application to solid state magnetic cooling*, Kolloquium: Physik der Nanostrukturen, Forschungszentrum Dresden-Rossendorf, 19.12.2008
- (57) *Thermodynamics and kinetics of complex hydrides for solid state storage of hydrogen*, Universitat Autònoma de Barcelona, Spain, 8-10 December 2008
- (56) *Novel magnetocaloric materials*, Days on Magnetocalorics, University Delft, NL, 30-31.10. 2008
- (55) *Novel functional materials based on magnetostructural transitions*, NIMS, Tsukuba, Japan, 27.10.2008
- (54) *FePt hard magnets*, JEMS08, Dublin, Ireland, 16 September 2008
- (53) *Magnetic field assisted processing: a route to superior nano-composites*, Workshop on Rare Earth Permanent Magnets, September 2008, Crete, Greece
- (52) *Novel Magnetocaloric Materials*, Research Trends in Novel Magnetic Materials Workshop in Santorini, Greece, September 2008
- (51) *Effects of pressure and magnetic field on the magnetic properties and martensitic transition in Ni-Mn-X magnetic shape memory alloys*, Int: Conf. on Martensitic Transformations, Santa Fe, New Mexico, June 29 – July 05, 2008
- (50) *Magnetic materials for energy-related applications*, IEEE Magnetics Society Technical Committee meeting, InterMag Conf. 2008, Madrid, 4-8 May 2008

- (49) *Complex hydrides: potential hydrogen storage materials for mobile applications*, Edgar-Lüscher Seminar, Klosters, Schweiz, 18.02.2008
- (48) *Mechanochemical synthesis of complex hydrides*, Forschungszentrum Karlsruhe, COSY Workshop, 22.11.2007
- (47) *FePt permanent magnet alloys*, XVI Int. Conf. on Permanent Magnets, Suzdal, Russia, 17.-21.9.2007
- (46) *Nanostructured hard magnets*, European School on Magnetism, Cluj, Romania, 12.09.2007
- (45) *Wasserstoff in der physikalischen Metallkunde*, TU Darmstadt, 11 July 2007
- (44) *Novel functional magnetic materials based on magnetostructural transitions*, 10 April 2007, Josef-Stefan-Institute, Ljubljana, Slovenia
- (43) *Magnetovolume effects in  $L1_0$  Fe-Pt alloys*, Hauptvortrag DPG AK Festkörperphysik, 26 March 2007, Regensburg
- (42) *Highest energy density permanent magnets for hybrid electric vehicles*, 26 February 2007, Toyota Head Office Tokyo
- (41) *Complex hydrides - potential hydrogen storage material for mobile applications*, University of Rome „La Sapienza“, 6 December 2006
- (40) *Materialwissenschaftliche Aspekte der Prothesenentwicklung am Beispiel von magnetorheologischen Flüssigkeiten*, Bionic Vision Day der Fa. Össur, Königswinter, 24.10.2006
- (39) *Determination of thermodynamic properties of complex hydrides*, Int. Workshop on functional materials for mobile hydrogen storage, GKSS Geesthacht, 22 September 2006
- (38) *Domain structure and magnetic properties of epitaxial rare earth-cobalt thin films and textured magnets*, 19<sup>th</sup> Int. Workshop on Rare Earth Magnets and their Appl., Beijing/ China, 29.8.-2.9.06
- (37) *Advanced synthesis and characterisation of high performance permanent magnetic materials*, Int. Conf. on Magnetism ICM2006, Kyoto, Japan, 20-25 August 2006
- (36) *Nanoscale high performance permanent magnets*, National Institute of Material Science NIMS, University of Tsukuba, Japan, 18 August 2006
- (35) *Micromagnets for MAG-MEMS*, NATO-ASI School on Magnetic Nanostructures for Micro-Electromechanical Systems and Spintronics, Scilla, Italy, 10 July 2006
- (34) *Thick hard magnetic films for MEMS*, NATO-ASI School on Magnetic Nanostructures for Micro-Electromechanical Systems and Spintronics, Scilla, Italy, 11 July 2006
- (33) *High temperature SmCo-type magnets*, Joint European Magnetic Symposia JEMS'06, San Sebastian, Spain, 25-29 June 2006
- (32) *Texturierte Nanostrukturen in magnetisch hochanisotropen Seltenerd-Übergangsmetallverbindungen*, Vortrag am Institut für Materialphysik, Universität Göttingen, 7 June 2006
- (31) *Peg legs and Bionic limbs*, Seminar of the Birmingham Metallurgical Association, Birmingham, UK, 20 April 2006
- (30) *Melt-spun materials for magnetic refrigeration near room temperature*, Hauptvortrag DPG AK Festkörperphysik, 28.03.2006, Dresden
- (29) *Light metal hydrides studied by high pressure techniques*, TMS Annual Meeting, Symp. Advanced Materials for Energy Conversion, 12-16 March 2006, San Antonio, USA
- (28) *Interaction domains as cooperative phenomena in high performance permanent magnets*, Laboratoire Louis Néel, Grenoble, 23<sup>rd</sup> of January 2006
- (27) *Magnetic shape memory alloys*, Institut für Strukturphysik, TU Dresden, 25.10.2005
- (26) *Magnetic entropy change in melt-spun MnFePGe*, MMM 2005 Conference, San José, USA, 29.10.-3.11.2005
- (25) *Materials for hydrogen storage, state of the art*, Materials for the energy vector hydrogen, University of Padua, Italy, 10.-11.10.2005

- (24) *Functional hydrogen storage materials for mobile applications*, Material Science and Technology 2005, Pittsburgh, USA, 25.-28.9.2005
- (23) *Preparation methods for bulk permanent magnets*, European School of Magnetism, Constanta, Romania, 7.-16.9.2005
- (22) *Wasserstoffgestützte Texturbildung in NdFeB Dauermagnetwerkstoffen*, Vortrag an der TU Bergakademie Freiberg, 16.4.2005
- (21) *Advanced structural characterisation as a tool for magnetic materials development*, 18<sup>th</sup> International Workshop on high performance magnets and their applications, Annecy, France, 29.8.-2.9.2004
- (20) *Nanocrystalline high performance magnets*, School of Nanostructured Systems: Basic Properties and Technology, Poznan, Polen, 31.5.-2.6.2004
- (19) *Der HDDR-Prozess zur Herstellung von anisotropen NdFeB Magnetpulvern*, Kolloquiumvortrag Vacuumschmelze Hanau, 11.9.2003
- (18) *Memory of texture during HDDR processing of NdFeB*, InterMag Boston, 02.04.2003
- (17) *Nanocrystalline high performance magnets*, Laboratoire Louis Néel, Grenoble, 27.01.2003
- (16) *High temperature Sm-Co-magnets*, UK Magnetics Society Seminar, Birmingham, 30<sup>th</sup> of October 2002
- (15) *Sintered Sm-Co magnets for high temperature applications*, 17<sup>th</sup> Int. Workshop on Rare-Earth Magnets and their Applications, Delaware, USA, August 2002
- (14) *Nanokristalline intermetallische Hartmagnete*, 23<sup>th</sup> April 2002, Max-Planck-Institut für Metallforschung Stuttgart, Germany
- (13) *Nanocrystalline high performance magnets*, 17.04.2002, University of Fribourg, Switzerland
- (12) *Hartmagnete*, 10<sup>th</sup> of September 2001, WE Heraeus Summer School, TU Dresden
- (11) *Nanocrystalline high performance magnets*, 29<sup>th</sup> of August 2001, JEMS'01 - Joint European Magnetic Symposia, Grenoble, France
- (10) *Intermetallische Verbindungen und Magnetwerkstoffe*, 22<sup>nd</sup> of May 2001, BMBF Workshop „Magnetwerkstoffe“, TU Darmstadt, Germany
- (9) *Nanocrystalline high performance magnets*, 19<sup>th</sup> of April 2001, Jozef-Stefan-Institute, Ljubljana, Slovenia
- (8) *Nanocrystalline hard magnetic materials*, TMS Conf. 2001, 14<sup>th</sup> February 2001, New Orleans, USA
- (7) *Nanocrystalline hard magnets*, Magnequench Int. Research Triangle Park, North Carolina, USA, 9<sup>th</sup> of August 2000
- (6) *Extreme HDDR processing of rare earth transition metal alloys*, Materials Congress 2000, Cirencester, UK, 13<sup>th</sup> April 2000
- (5) *Reactive Milling of permanent magnet powders*, The UK Magnetics Society, Recent Advances in Permanent Magnet Processing, Birmingham, 6<sup>th</sup> of October 1999
- (4) *Entwicklung neuer hartmagnetischer Werkstoffe aus Seltenerd-Übergangsmetallmaterialien* Gesprächskreis 'Neue Materialien' des Materialforschungsverbundes Dresden, 10 June 1999
- (3) *Wasserstoffinduzierte Nanostrukturierung von Magnetwerkstoffen*, Frühjahrstagung der Deutschen Physikalischen Gesellschaft, DPG 99, Münster (Hauptvortrag)
- (2) *Hydrogenation disproportionation desorption recombination processes applied to NdFeB-, SmFe- and SmCo-type alloys*, MRS-Spring meeting, April 1999, San Francisco, USA
- (1) *Hydrogen assisted processing of rare-earth permanent magnets*, 15<sup>th</sup> Int. Workshop on Rare-Earth Magnets and their Applications, September 1998, Dresden, Germany.