

Poster session details

Poster dimensions: Posters should be in A0 dimensions (841x1189 mm). The poster board sizes are 7ft x 3ft. Poster boards will be numbered. Please check the number assigned to you below (note: M and T designate Monday and Tuesday, respectively).

Poster session venue: The poster sessions will take place on Monday July 24th and Tuesday July 25th from 4pm until 5.30pm in the Technology Innovation Centre at the University of Strathclyde. The poster concourse will be well signposted when you arrive. You will be supplied with materials to adhere your poster to the Velcro boards.

Poster prizes: We are delighted to announce that there will be two poster awards, sponsored by the Royal Society of Chemistry: the Materials Horizons Poster prize, comprising a certificate and a £150 RSC book voucher and a Journal of Materials Chemistry C Poster prize comprising a certificate and a free 1-year personal subscription to that journal.

Poster session, Monday July 24th, 4pm-5.30pm

(Poster boards will be available from 1pm, Monday 24th July. To aid the poster judges, please make sure your poster is on display before 4pm. Please remove your poster by 6pm on Monday July 24th.)

Board	Poster presenter	Institution	Poster title
M1	B. Vineela	Indian Institute of Technology Madras	Synthesis and characterization of $\text{Na}_2\text{W}_3\text{TeO}_{12} \cdot 2\text{H}_2\text{O}$, $(\text{NH}_4)_2\text{W}_3\text{TeO}_{12}$, $\text{Ti}_2\text{W}_3\text{TeO}_{12}$ and $\text{A}_2\text{W}_3\text{SeO}_{12}$ (A = Cs, Rb & Tl)
M2	G. Behrendt	University of Rostock, Germany	Two routes to new anhydrous alkaline earth metal tetracyanidoborate salts
M3	D. Xu	University of Oxford, UK	Synthesis and Magnetic Properties of $\text{CeMn}_{2-x}\text{Co}_x\text{Ge}_4\text{O}_{12}$ and $\text{ZrMn}_{2-x}\text{Co}_x\text{Ge}_4\text{O}_{12}$
M4	C. Maak	University of Munich, Germany	$\text{Y}_{26}\text{Ba}_6[\text{Si}_{22}\text{O}_{19}\text{N}_{36}]\text{O}_{16}:\text{Eu}^{2+}$ - An Orange-Red Emitting Oxonitridosilicate Oxide with a Unique Layered Structure
M5	W. Grunwald	Universität Bonn, Germany	New europium phosphates and equilibrium relations in the ternary system Eu/P/O
M6	A. J. Browne	University of Edinburgh, UK	Structural distortions from orbital molecule ordering in a new vanadium spinel
M7	C. I. Thomas	Aalto University, Finland	Tailoring the interlayer environment of titanoniobates using primary alcohols
M8	W. Assenmacher	Universität Bonn, Germany	$\text{InGaO}_3(\text{ZnO})_{0.5}$: Synthesis, Structure and Cation Distribution
M9	J. Page	University of Oxford, UK	$\text{Sr}_2\text{FeIrO}_4$: Ir^{2+} in an Extended Oxide Phase
M10	L. M. Schoop	Max Planck Institute for Solid State Research, Stuttgart, Germany	Solid State Chemistry as a tool to find new Quantum Materials
M11	V. A. Butin	Syktvykar State University, Russia	Exchange Interactions and State of Iron Atoms in the $\text{Bi}_5\text{Nb}_{3-3x}\text{Fe}_{3x}\text{O}_{15-5}$ Solid Solutions
M12	X. Vendrell	University of Sheffield, UK	Electronic conductivity and Joule heating effect in Ytria-Stabilized Zirconia under a small dc bias
M13	L. Mestres	Universitat de Barcelona, Spain	Influence of donor dopants on the structural and functional properties of $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3$ - BaTiO_3 ceramics
M14	T. Szmechtyk	Łódź University of Technology, Poland	Novel Biocompatible PDMS/PET Satin Composite for Transversal Pneumatic Artificial Muscles
M15	E. Cerdeiras	Universitat de Barcelona, Spain	Investigation on the structural and functional properties of $(\text{Bi}_{0.5}\text{Na}_{0.5})\text{TiO}_3$ - BaTiO_3 based ceramics around the morphotropic phase boundary
M16	K. Lawson	Loughborough University, UK	Development of nickel hydroxide materials for electrochromic applications
M17	I. Nemeč	Charles University, Czech Republic	Hydrogen-bonded molecular crystals for nonlinear optics – study of temperature-induced phase transformations
M18	W. V. Fernandes	Universidade Federal da Paraíba, Brazil	Influence of alternative fuel minor constituents on clinker phase distribution
M19	S. Greiner	University of Stuttgart, Germany	$\text{Sc}_2[\text{SeO}_3]_3$ and its Derivatives

M20	K. Wittich	Universität Bonn, Germany	Multinary tungsten phosphates ($M_yP_xW_{1-x-y}O_{2.5+\square}$) with average structures related to cubic or tetragonal WO_3
M21	A. Jiamprasertboon	Suranaree University of Technology, Thailand	Structure-Property Relationships in M-doped In_2TeO_6 (M = Ga, Bi, La)
M22	P. S. Berdonosov	Lomonosov Moscow State University, Russia	Iron (III) Selenite $Fe_2O(SeO_3)_2$: preparation and magnetic characteristics
M23	O. Boytsova	Aston University, UK	In-situ study of transformation processes of NH_4TiOF_3 hybrid mesocrystals into TiO_2 -based nanostructures
M24	H. Gaiser	Karlsruhe Institute of Technology, Germany	Highly Crystalline YAG:Ce Nanophosphor via NaCl-Matrix Post-Treatment
M25	H. Beltrán-Mir	Universitat Jaume I, Spain	Defect chemistry of Eu(III)-doped $BaTiO_3$
M26	Y. Tang	University of Oxford, UK	Crystal Structures and Magnetic Properties of Two Iron-containing Perovskites
M27	A. Wolff	Technische Universität Dresden, Germany	Low-Temperature Synthesis of Polycrystalline Copper Phosphides in Molten Organic Salts
M28	J. Hodgkinson	University of Cambridge, UK	Conduction Pathways in Alkali Lanthanide Pyrosilicates, $A_3LnSi_2O_7$
M29	J. Teichert	Technische Universität Dresden, Germany	Tracing the polyol reduction of Cu^{2+} with X-ray diffraction, infrared spectroscopy and electron microscopy
M30	L. Daniels	University of Liverpool, UK	New n-Type Thermoelectric Oxides with the Perovskite Structure
M31	L. A. Perez-Maqueda	Universidad de Sevilla, Spain	Solid-State Reactions in Natural Carbonates for High-Temperature Thermochemical Energy Storage in Concentrated Solar Power Plants
M32	G. Perversi	University of Edinburgh, UK	Unconventional magnetic order in $GeFe_2O_4$
M33	P. Gross	University of Augsburg, Germany	From columns to layers: Tailoring the crystal structure topology of alkaline earth isocyanurate-hydrates by tuning stoichiometry and pH.
M34	N. Kannengießer	Universität Bonn, Germany	Analysis of ligand-field effects in samarium(III) oxo-compounds
M35	R. M. Smith	University of St. Andrews, UK	Quantum Critical Points in Ferroelectric Tetragonal Tungsten Bronze and Pyrochlore
M36	B. Serment	ICMCB-CNRS-University of Bordeaux, France	The versatile Co^{2+}/Co^{3+} oxidation states in Cobalt Alumina spinel used as pigments
M37	T. Siritanon	Suranaree University of Technology, Thailand	Electrical conduction in $Cs(Al,Te)_2O_6$ mixed valence pyrochlores: the roles of Cs
M38	J. Stahl	Ludwig-Maximilians-Universität München, Germany	Control over tetrahedra connectivity by dilution of the solvent in solvothermal synthesis
M39	P. Slater	University of Birmingham, UK	Investigation into the accommodation of borate species in the channel sites in apatite materials
M40	S. Wolf	Karlsruhe Institute of Technology, Germany	Synthesis of Metal Carbonyl Clusters in Ionic Liquids
M41	C.-M. Chin	University of Oxford, UK	Relaxor Ferromagnetism in Ni-based Perovskites
M42	V. K Srirambhatla	University of Strathclyde, UK	Template Induced Crystallisation of Computationally Predicted Polymorphs
M43	M. Mangir Murshed	Universität Bremen, Germany	Synthesis and characterizations of $H_2W_2O_7 \cdot nH_2O$ layered tungstates hosting hydrogen storage and conduction
M44	J. Gardner	University of St. Andrews, UK	A-site cation size effect in ferroelectric tetragonal tungsten bronzes
M45	F. J. García García	Universidad Complutense de Madrid, Spain	$La_{1.2}Sr_{2.7}RuO_7$: an Old Friend Revisited by HREM
M46	J. Kusz	Uniwersytet Śląski, Poland	Crystal structures of 1,4-di(1-alkyl-1,2,3-triazol-5-yl)butane based iron(II) spin crossover coordination polymers

M47	J. Polt	University of Sydney, Australia	Spectroscopic characterization of the double-perovskites $\text{Sr}_{3-x}\text{Y}_x\text{NbO}_{5.5+1/2x}$
M48	K. Ji	University of Edinburgh, UK	Doping studies of $(\text{CuCl})\text{LaNb}_2\text{O}_7$
M49	A.R. Landa-Cánovas	Instituto de Ciencia de Materiales de Madrid, CSIC, Spain	Phase Transition and Short-Range Order in Sb-doped VO_2
M50	B. Leclercq	Université Lille1, France	Low-Dimensional Ferromagnetic Units towards Valuable Magneto-Electrics
M51	M. L. Ruiz-González	Universidad Complutense (UCM), Spain	Short-range ordering phenomena in perovskite related manganites: advanced microscopy tools for understanding
M52	N. Masó	University of Oslo, Norway	Insights into the defect chemistry of BiFeO_3
M53	R. Morrow	Leibniz Institute for Solid State and Materials Research Dresden, Germany	Growth, Structure, and Properties of La_2BInO_6 (B = Mn, Fe, Co, Ni, Mg, and Zn) Double Perovskite Single Crystals
M54	E. Pachoud	University of Edinburgh, UK	Charge order and negative thermal expansion in vanadium oxyphosphate
M55	T. Buttler	Martin Luther University Halle-Wittenberg, Germany	Magnetoelectric Ni/BaTiO ₃ Composites
M56	S. Mathew	University College London, UK	X-ray Photoelectron Spectroscopy study of non-metal ion dopant diffusion in TiO_2
M57	S. J Cassidy	University of Oxford, UK	Discovery and Magnetic Structure of $\text{Sr}_2\text{Fe}_3\text{Se}_2\text{O}_3$
M58	Th. M. Gesing	Universität Bremen, Germany	Phase evolution of $(\text{Bi}_{1-x}\text{Fe}_x)\text{FeO}_3$: A temperature-dependent neutron time-of-flight powder diffraction and light inelastic scattering study
M59	K. H. Hong	University of Edinburgh, UK	Synthesis, crystal structure and magnetic properties of MnFe_3O_5
M60	A. Dziemidkiewicz	Łódź University of Technology, Poland	Metal complexes as new cross-linking agents for polychloroprene rubber

Poster session, Tuesday July 25th, 4pm-5.30pm

(Poster boards will be available from 1pm, Tuesday 25th July. To aid the poster judges, please make sure your poster is on display before 4pm)

Board	Poster presenter	Institution	Poster title
T1	D. I. Nasonova	Lomonosov Moscow State University, Russia	Unsubstituted tetrahedrite $\text{Cu}_{12}\text{Sb}_4\text{S}_{13}$: low-temperature phase transition, crystal structure and thermoelectric properties
T2	S. L. Kunz	Universität Bonn, Germany	Topotactically controlled reduction of VOPO_4 and related phosphates
T3	V. Frizon	ICMCB-CNRS-University of Bordeaux, France	Exploration of the $\text{CeO}_2\text{-ZrO}_2\text{-PrO}_x$ phase diagram: investigation of the oxygen mobility assisted by redox properties
T4	A. M. Arévalo-López	University of Edinburgh, UK	Magnetic frustration, cation disorder and spin reorientation in the high-pressure Ni_3TeO_6 -type $\text{Mn}_2\text{InSbO}_6$
T5	T. Wágner	University of Pardubice, Czech Republic	Chalcogenide films with ionic conductivity for nanoscale memories
T6	N. Hasanli	University of Oxford, UK	Topochemical reduction of rhenium based double perovskites
T7	E. A. Timofeyeva	Samara University, Russia	Geometrical-topological analysis of new potential silver solid-state electrolytes
T8	M. Asaad	Heriot Watt University, UK	Thermoelectric Properties and High-Temperature Stability of the $\text{Ti}_{1-x}\text{V}_x\text{CoSb}_{1-x}\text{Sn}_x$ Half Heusler Alloys
T9	A. Pogu	Indian Institute of Technology Madras	Syntheses and Characterization of Three New Quaternary $\text{A}_2\text{CdSn}_2\text{S}_6$ (A = K, Rb and Cs) Sulfides
T10	E. A. Berdonosova	Lomonosov Moscow State University, Russia	The hydrogen interaction with nanocrystalline intermetallic compounds based on TiFe

T11	A. Karbstein	Universität Bonn, Germany	Topotactically controlled oxidative de-intercalation of silver-chromium and silver-indium phosphates
T12	M. Fabián	Slovak Academy of Sciences, Slovak Republic	Electrochemical properties of $\text{Li}_4\text{Ti}_5\text{O}_{12}$ prepared via low-temperature solid state reaction assisted by mechanical milling
T13	T. Szmechtyk	Łódź University of Technology, Poland	Polythiourethane microcapsules as new solution for isocyanate-based self-healing systems
T14	A. Zeugner	Technische Universität Dresden, Germany	Bi_xTe ($x = 1, 2, 3$) Family: Modular Design of Topological Insulators
T15	E. R. Aluri	University of Glasgow, UK	Magnetic nanocomposite materials for the archeological waterlogged wood conservation
T16	K. Itoh	Okayama University, Japan	Mechanochemical synthesis of amorphous phosphorus tellurides and their short-range structure
T17	E.S. Kuznetsova	Lomonosov Moscow State University, Russia	Synthesis, structure and magnetic properties of francisite family of compounds $\text{Cu}_3\text{M}(\text{SeO}_3)_2\text{O}_2\text{Cl}$ ($\text{M} = \text{Y, La, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er, Tm, Yb, Lu}$)
T18	C. H. Kim	Korea Research Institute of Chemical Technology, Korea	Synthesis and Characterization of $\text{K}_2\text{SiF}_6:\text{Mn}^{4+}$ Phosphors Using K_2MnF_6 for White LED
T19	L. Jin	University of Oxford, UK	Topochemical Reduction of $n = 1$ Ruddlesden-Popper Ruthenium-Containing Oxides
T20	D. Rudolph	University of Stuttgart, Germany	Hydride Halides of Divalent Europium: Structure and Luminescence
T21	D. Himics	University of Pardubice, Czech Republic	Dependence of upconversion emission intensity on Er^{3+} concentration in $\text{Ho}^{3+}/\text{Er}^{3+}$ co-doped $(\text{GeS}_2)_{90}(\text{Ga}_2\text{S}_3)_{10}$ chalcogenide glasses
T22	M. Mazur	University of St Andrews, UK	ADOR synthesis realized by use of the hydrostatic pressure
T23	V. Baran	Technical University of Munich, Germany	Temperature dependent crystal structure changes inside Lithium-ion batteries via neutron powder diffraction
T24	X. Xu	University of Oxford, UK	Synthesis and Characterisation of New Layered Oxyphosphide $\text{Ba}_2\text{CrO}_2\text{Cr}_2\text{As}_2$
T25	A. Yamamoto	Shibaura Institute of Technology, Japan	High-pressure synthesis of A-Pt-O system ($\text{A}=\text{Ca, Cd, Hg}$)
T26	H. Zhang	Queen Mary University of London, UK	New dielectric ceramics for energy storage
T27	A. Dziemidkiewicz	Łódź University of Technology, Poland	Influence of fillers on the activity of new chloroprene rubber cross-linking systems
T28	Q. L. Liu	University of Science and Technology Beijing, China	Crystal structures and luminescent properties of Eu^{2+} -doped $\text{Sr}(\text{LiAl})_{1-x}\text{Mg}_{2x}\text{Al}_2\text{N}_4$ and $\text{Sr}(\text{LiAl})_{1-y}(\text{Mg}_3\text{Si})_y\text{N}_4$ for white-light pcLEDs
T29	P. Slater	University of Birmingham, UK	Topochemical modifications of mixed metal oxide compounds by low temperature fluorination routes
T30	W. R. Brant	Uppsala University, Sweden	Following Phase Distributions in Operating Lithium Ion Battery Electrodes
T31	M. Amores	University of Glasgow, UK	Microwave-assisted synthesis and lithium-ion diffusion studies of doped solid-state electrolytes
T32	A. Götz	University of Leipzig, Germany	Reaction pathways of the hydrogenation of MPd_3 and crystal structures of their hydrides
T33	S. S. Fedotov	Lomonosov Moscow State University, Russia	Synthesis, crystal structure and electrochemical properties of KVPO_4X ($\text{X} = \text{O, F}$) cathode materials for K-ion batteries
T34	S. R. Popuri	Heriot-Watt University, UK	Understanding the thermoelectric performance of SnSe: a structure-property relationship study

T35	P. Gross	University of Augsburg, Germany	Synthesis and Characterisation of the First Biuretoborate $(\text{NH}_4)[\text{B}(\text{biu})_2]$ and of Biuret
T36	S. Suthirakun	Suranaree University of Technology, Thailand	Effects of Sn-doping on Behavior of Li-intercalation in V_2O_5 Cathode Materials of Li-ion Batteries: A Computational Modeling
T37	C. Fraunhofer	Leipzig University, Germany	Influence of substitution and thermal treatment on superstructures in copper iron chalcogenides
T38	Z. N. Taylor	University of Liverpool, UK	New rock salt oxides as Li ion battery cathodes
T39	D. Eklöf	Stockholm University, Sweden	New and old findings of thermoelectric ZnSb
T40	W. P. Clark	University of Stuttgart, Germany	Novel High-pressure Polymorph of NiAs-Type FeN
T41	J. N. Blandy	University of Oxford, UK	Soft Chemical Control of Layered Oxychalcogenides
T42	J. Kusz	Uniwersytet Śląski, Poland	"Double" spin crossover in iron(II) two dimensional coordination polymer
T43	A. N. Kuznetsov	Russian Academy of Sciences, Russia	From Intermetallics to Low-Dimensional Compounds: Ni_3M Phases and Derivative Structures (M = group 13 metal)
T44	S. R. Yeandel	Loughborough University, UK	Lithium Diffusion in Complex Phosphidosilicate Materials
T45	M.S. Likhanov	Lomonosov Moscow State University, Russia	FeGa_3 -based solid solutions: the peculiarities of the local crystal structure and thermoelectric properties
T46	P. D. C. Dietzel	University of Bergen, Norway	An in-depth in-situ structural study of the CO_2 adsorption process in the CPO-27 series
T47	D. O. Ojwang	Stockholm University, Sweden	Adsorption properties of CO_2 in copper hexacyanoferrate
T48	C. Oliver Duran	University of the Balearic Islands, Spain	SBA-15 mesoporous silica as a solid phase extraction sorbent for parabens
T49	R. Nedumkandathil	Stockholm University, Sweden	Hydride Reduction of BaTiO_3 – Oxyhydride vs O-Vacancy Formation
T50	W. L. Schmidt	University of Sheffield, UK	Bulk Preparation and Characterization of Perovskite Halides
T51	T. Rackl	Ludwig-Maximilians-Universität München, Germany	The effect of A-site-substitution in superconducting MAX-Phases
T52	T. S. Attari	Durham University, UK	Synthesis and structural characterisation of lithium-rich anti-perovskites using X-ray diffraction and solid-state NMR
T53	V. Karabyn	University of Pardubice, Czech Republic	Phase transformation induced in $\text{Ge}_8\text{Sb}_{2-x}\text{Bi}_x\text{Te}_{11}$ thin films by single femtosecond pulses
T54	D. A. Ferluccio	Heriot-Watt University, UK	Solid-State Synthesis and Thermoelectric Properties of NbCoSn-based half-Heusler Compounds
T55	V. Yu. Verchenko	Lomonosov Moscow State University, Russia	New polar Re-Ga-Zn intermetallics: tuning the electron count through the Ga/Zn joint melt
T56	K. Wissel	Technische Universität Darmstadt, Germany	Topochemical defluorination of $\text{Sr}_2\text{TiO}_3\text{F}_2$ in the context of fluoride-ion batteries
T57	B. Zhang	University of Pardubice, Czech Republic	Investigation of the resistive switching in Ag_xAsS_2 layer by conductive AFM
T58	M. Weber	Universität Bonn, Germany	Solid solutions $\text{MOPO}_4 - \text{M}'\text{OPO}_4$
T59	Z. Wang	University College London, UK	First-principles insights into lead-free layered halide perovskites for photovoltaics