

EOGG6

PROGRAMME

ECCG6 POSTERS

SESSION 1 Fundamentals of Nucleation and Crystal Growth

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| S01-P01 | On the behavior of large lamellar spacings during the discontinuous precipitation reaction: A phase-field approach | <i>Aniss Ladjeroud, Lynda Amirouche and Mathis Plapp</i> |
| S01-P02 | Mathematical modeling of unsteady-state nucleation in crystallizers: a complete analytical solution of integro-differential model | <i>Dmitri V. Alexandrov, Eugenia V. Makoveeva</i> |
| S01-P03 | Amplification of crystal enantiomeric excess with crystallization of chiral clusters | <i>Hiroyasu Katsuno, Makio Uwaha</i> |
| S01-P04 | Effect of intense convective flow on the dendrite growth. Part 1. Selection criterion and undercooling balance | <i>L.V. Toropova, P.K. Galenko</i> |
| S01-P05 | Effect of intense convective flow on the dendrite growth. Part 2. Kinetics of droplet solidification | <i>L.V. Toropova and P.K. Galenko</i> |
| S01-P06 | Atomic "noise" oscillations in the phase field crystal model | <i>Ilya Starodumov, P. Galenko, VI. Ankudinov, Dmitri Alexandrov</i> |
| S01-P07 | Phase field model for the rapid growth of crystallites in multi-grain transformations | <i>P. Galenko, Irina Nizovtseva, N. Moelans, M. Rettenmayr, Dmitri Alexandrov</i> |
| S01-P08 | Phase field model for the rapid growth of crystallites in multi-grain transformations | <i>Peter Galenko, Irina Nizovtseva, N. Moelans, M. Rettenmayr, Dmitri Alexandrov</i> |
| S01-P09 | The Influence of Solution Environment on the Nucleation Kinetics and the Growth Mechanism of Urea | <i>Toshiko Izumi, Kevin J. Roberts and Aatika Rizvi</i> |
| S01-P10 | Nanowires on pedestals: formation mechanism and growth kinetics | <i>Sergey Filimonov and Yuri Hervieu</i> |
| S01-P11 | Anomalous size distribution of chiral crystals under grinding | <i>Hiroyasu Katsuno, Makio Uwaha</i> |

S01-P12	Accelerated crystal nucleation: Effect of high supersaturation on the nucleation of 4-aminobenzoic acid	<i>P.L. Kaskiewicz, N.J. Warren, K.J. Roberts, I. More, P. Dowding, N. George</i>
S01-P13	A comparison of solution nucleation kinetics of methyl stearate calculated from analytical and numerical solutions of KBHR theory	<i>P.L. Kaskiewicz, D.M. Camacho Corzo, N.J. Warren, K.J. Roberts, I. More, P. Dowding, N. George, N. Mitchell</i>
S01-P14	Crystallization of 2-Chloromandelic Acid: Growth of the Pure Enantiomer/ the Racemic Compound and the Stabilization of the Metastable Conglomerate	<i>Mareike Henniges, Andreas Seidel-Morgenstern and Heike Lorenz</i>
S01-P15	Nucleation and pre-nucleation precursor phase of bismuth tri-iodide onto amorphous substrates	<i>Laura Fornaro, Daiana Ferreira, Heinkel Bentos Pereira and Alvaro Olivera</i>
S01-P16	Coalescence of 3D islands on weakly interacting substrates	<i>V. Gervilla, G.A. Almyras, B. Lü, and K. Sarakinos</i>
S01-P17	Spiral growth of a multicomponent crystal due to chemical reaction	<i>S.A. Kukushkin, A.V. Osipov, S. Sharofidinov and A.V. Redkov</i>
S01-P18	How the intermediate stage of a phase transition process transforms to the concluding stage of Ostwald ripening	<i>Irina V. Alexandrova, Alexandr A. Ivanov and Dmitri V. Alexandrov</i>
S01-P19	Effects of magnesium, temperature and supersaturation on calcium carbonate precipitation	<i>S. Fermani, Michela Reggi, Giuseppe Falini, Damir Kralj and Branka Džakula</i>

SESSION 2 Bulk Crystal Growth

S02-P01	Crystal growth and structure of pure and doped AlIBVI layered semiconductors	<i>Nikolai Kolesnikov, Dmitrii Borisenko, Anna Timonina, V. Nikolaichik, A. Tereshchenko and Elena Borisenko</i>
S02-P02	Defect formation in Si- crystals grown on large area bulk seeds of different properties by a modified FZ- method	<i>H.- J. Rost , R. Menzel , D. Siche , U. Juda , and S. Kayser</i>

S02-P03	Thermal stress and local crystallisation parameters in single-crystal rods of Ni ₂ MnGa ferromagnetic shape memory alloys	<i>H. Behnken, U. Hecht, E. Pagounis, M. Laufenberg</i>
S02-P04	Investigation of the LiGaS ₂ crystallization process	<i>Aleksey Kurus, S. Lobanov, L. Isaenko, Vi. Lisitskiy</i>
S02-P05	Transient modeling of point defect distribution in CZ Si crystals under different growth conditions	<i>Andrejs Sabanskis, Janis Virbulis</i>
S02-P06	Recent progress in perovskite-type substrate crystal growth at the Leibniz Institute for Crystal Growth	<i>C. Guguschev, J. Hidde, T. M. Gesing, M. Gogolin, D. Klimm</i>
S02-P07	Regulation of volatile dopant distribution in crystals grown by the Bridgman-Stockbarger technique	<i>D. Kofanov, E. Galenin, O. Sidletskiy</i>
S02-P08	Crystal growth of near stoichiometric lithium yttrium borates	<i>Éva Tichy-Rács, Krisztián Lengyel, L. Kovács, Zsuzsanna Szaller, Ágnes Péter</i>
S02-P09	Numerical computation on hot-zone modified furnace for oxide growth process	<i>F. Mokhtari, I. Lasloudji, S. Zermout</i>
S02-P10	Control of the VGF Process II: Reconstruction of not directly measured quantities	<i>S. Ecklebe, J. Winkler, Ch. Frank-Rotsch, and N. Dropped</i>
S02-P12	Presence of Al-Ga complex in the Ca ₃ Ta(Ga,Al) ₃ Si ₂ O ₁₄ melt and its direct partitioning to crystal with partition coefficient of unity	<i>Satoshi Uda, Shuhei Sakano, Chihiro Koyama, Jun Nozawa, and Junpei Okada</i>
S02-P13	Oxygen-metal non-stoichiometry in the diffusion boundary layer during growth of congruent-melting LiNbO ₃	<i>Satoshi Uda, Chihiro Koyama, Jun Nozawa, Hiromasa Niinomi, and Junpei Okada</i>
S02-P14	Growth of ternary compound CuSbS ₂ with various cation ratios	<i>Manato Takeuchi, Akira Nagaoka, Sh. Ikeda and Kenji Yoshino</i>
S02-P15	Pure and Nd-doped Czochralski-grown LaxGdySc _{4-x-y} (BO ₃) ₄ nonlinear optical single crystals	<i>Lucian Gheorghe, Madalin Greculeasa, Fl. Voicu, F. Khaled, P. Loiseau, Gérard Aka, St. Hau, Cristina Gheorghe, G. Croitoru, N. Pavel</i>

S02-P16	Growth, Wafering and Surface Preparation of CdZnTe Crystals for X-ray and Gamma Ray Applications	<i>Mustafa Ünal, D. Bender, Özden B. Balbaşı, Merve Ünal, Merve P. Kabukcuoğlu, Y. Ergunt, M. Parlak and R. Turan</i>
S02-P17	Growth of rare earth doped (Eu, Sm, Nd, Dy) LiF crystals by EFG technique for dosimetry application	<i>Pooja Seth and Shruti Aggarwal</i>
S02-P18	Optimization of Cs ₂ HfCl ₆ synthesis, its crystal growth by vertical Bridgman method, and measurements of luminescence and scintillation properties	<i>R. Král, P. Zemenová, A. Bystřický, V. Vaněček, V. Jarý, M. Kohoutková, S. Kodama, S. Kurosawa, Y. Yokota, A. Yoshikawa and M. Nikl</i>
S02-P19	Investigation of the LiGaTe ₂ phase crystallization field	<i>Sergey Grazhdannikov, Ks. Korzhneva, Pavel Krinitsyn, L. Isaenko, Maxim Molokeep</i>
S02-P20	Numerical investigation on asymmetrical interface of floating zone (FZ) for silicon crystal growth	<i>Xuefeng Han, Satoshi Nakano, Xin Liu, Hirofumi Harada, Yoshiji Miyamura and Koichi Kakimoto</i>
S02-P21	A new dendritic growth morphology with eight secondary arms in an L1 ₂ ordered phase alloy of Ni-Al-Ta system	<i>Yuhi Mori, Tadaharu Yokokawa, Toshiharu Kobayashi, H. Harada, Sh. Suzuki and Takuma Saito</i>
S02-P22	Flatness Based Control of the VGF Process	<i>S. Ecklebe, J. Winkler, Ch. Frank-Rotsch and N. Dropka</i>
S02-P23	Numerical and experimental investigation of thermal stresses and dislocation density in Kyropoulos and Czochralski growth of sapphire	<i>T. Duffar, G. Sen, C. Stelian, T. N. Tran Caliste, J. Baruchel</i>
S02-P24	Growth from the melt, structure and properties of (ZrO ₂) _{1-x-y} (Sc ₂ O ₃) _x (CeO ₂) _y solid solution crystals	<i>D.A. Agarkov, M.A. Borik, S.I. Bredikhin, V.T. Bublik, A.V. Kulebyakin, I.E. Kuritsyna, E.E. Lomonova, F.O. Milovich, V.A. Myzina, V.V. Osiko, P.A. Ryabochkina, N.Yu. Tabachkova</i>
S02-P25	Effect of dopants on the properties of aromatic derivatives crystals	<i>A. Stanculescu, M. Socol, O. Rasoga, N. Preda, F. Stanculescu, I. Ionita and C. Breazu</i>

S02-P26	Flux growth of $\text{LuAl}_3(\text{BO}_3)$ crystals from molybdate high-temperature solutions	<i>D.A. Naprasnikov, V.V.Maltsev, N.I. Leonyuk, K.N. Gorbachena, V.E. Kisel, A.S. Yasukevich and N.V. Kuleshov</i>
S02-P27	Soret effect in vertical Bridgman method	<i>G.N. Kozhemyakin, V.I. Strellov and E.N. Korobeynikova</i>
S02-P28	Growth of bismuth single crystals in different directions	<i>G.N. Kozhemyakin</i>
S02-P29	Optical spectroscopy and magnetic behaviour of Sm^{3+} and Eu^{3+} cations in $\text{Li}_6\text{Eu}_{1-x}\text{Sm}_x(\text{BO}_3)_3$ solid solution	<i>Matias Velazquez, Rekia Belhoucif, Jean-Baptiste Sand, Olivier Plantevin, P. Aschehoug, Ph. Goldner, G. Christian</i>
S02-P30	Growth of Mg doped stoichiometric lithium niobate crystal by semi continuous high-temperature top-seeded solution growth technique	<i>Zsuzsanna Szaller, Éva Tichy-Rács, Ivett Hajdara, Krisztián Lengyel and László Kovács</i>
S02-P31	Spectroscopy and lasing of Er,Yb:YAG crystals grown by horizontal directional crystallization	<i>Sergii Nizhankovskyi, Nazar Kovalenko, Igor Pritula, Anatolii Kozlovskyi, Oleh Vovk</i>
S02-P32	Growth of $\text{Ho}_{1-x}\text{Nd}_x\text{Fe}_3(\text{BO}_3)_4$ from solutions based on $\text{Bi}_2\text{Mo}_3\text{O}_{12}$ and Li_2WO_4	<i>I.A. Gudim, A. A. Demidov, E. V. Eremin, D.K. Shukla</i>
S02-P33	High-Pressure Floating-Zone Growth of LaNiO_3 and MTiO_3 (M=Co, Ni, Mn) Single Crystals	<i>Kaustav Dey, Johannes Werner, J. Kaiser, Changhyun Koo, R. Bag, Surjeet Singh, and Rüdiger Klingeler</i>
S02-P34	Optimization of the inductor shape for the pedestal growth of silicon crystals using mathematical modelling	<i>Kirils Surovovs, Anatolijs Kravcovs, Andrejs Sabanskis and Janis Virbulis</i>
S02-P35	Crystal growth and structural investigation of Sm^{3+} , Dy^{3+} -doped CNGG and CLNGG crystals for lasers in the visible range	<i>Madalin Greculeasa, Lucian Gheorghe, Flavius Voicu, Cristina Gheorghe, St. Hau, Aurel-Mihai Vlaicu</i>
S02-P36	Validation of a 3D mathematical model for feed rod melting during floating zone Si crystal growth	<i>Matīss Plāte, Jānis Virbulis, and Kaspars Dadzis</i>
S02-P37	Bulk Growth and Characterization of Xylenol Orange Tetrasodium Salt Added KAP Single Crystal Grown by Sankaranarayanan-Ramasamy Method	<i>G. Babu Rao, P. Ramasamy and Rajesh Paulraj</i>

S02-P38	Influence of the crucible bottom shape on the fluid flow and heat transfer during the seeding process of sapphire crystal growth by Kyropoulos method	<i>Samir Zermout, Faiza Mokhtari, Abdeljalil Nehari, Idir Lasloudji</i>
S02-P39	Thermoluminescence and Photoluminescence properties of Mg doped Lithium Fluoride Crystals	<i>Pooja Seth and Shruti Aggarwal</i>
S02-P40	High-pressure optical floating-zone growth and characterization of Pmnb-Li ₂ FeSiO ₄ single crystals	<i>Waldemar Hergett, Christoph Neef, Sven Sauerland, Hubert Wadepohl, Mahmoud Abdel-Hafiez and Rüdiger Klingeler</i>
S02-P41	Growth, Wafering and Surface Preparation of CdZnTe Crystals for X-ray and Gamma Ray Applications	<i>Mustafa Ünal, Deniz Bender, Özden B. Balbaşı, M. Ünal, Mehmet Parlak and R. Turan</i>
S02-P42	Magnetic properties study on Er ₂ Ti ₂ O ₇ pyrochlore	<i>Kristina Vlášková, M. Klicpera</i>
S02-P43	Growth of radiation hard PWO crystals in open furnaces	<i>M. Klejch, S. Sýkorová, D. Petrydes, M. Korjik, V. Dormenev, R. Novotny, Hans-Georg Zaunik, J. Houžvička</i>
S02-P44	Growth of spring-shaped sapphire single crystal	<i>Yuui Yokota, Y. Ohashi, K. Inoue, M. Yoshino, Ak. Yamaji, Sh. Kurosawa, Kei Kamada and Ak. Yoshikawa</i>
S02-P45	Growth of molybdate bolometric crystals by low-thermal-gradient Czochralski technique	<i>V.D. Grigorieva, N.V. Ivannikova, V.N. Shlegel</i>

SESSION 3 Surfaces, Interfaces, Epitaxial Growth, Thin Films

S03-P01	Growth of thin SiC/Si films via method of atoms substitution and its application for growth of III-nitrides	<i>S.A.Kukushkin, A.V. Osipov and A.V.Redkov</i>
S03-P02	Molecular beam epitaxy growth of InAs/AlSb superlattices on GaAs substrates	<i>Djalal Benyahia, Łukasz Kubiszyn, K. Michalczewski, Artur Kębtowski, K. Grodecki, and Piotr Martyniuk</i>
S03-P03	Step bunching phenomena on Si(001) surface due to DC heating under sublimation and Si deposition	<i>Ekaterina Rodyakina, Sergey Sitnikov, Alexander Latyshev</i>
S03-P04	Crystallization from thin films on a hot plate: A new approach of solid surface patterning	<i>I. Urzica, Ana-Maria Banici (Niculescu), C. T. Fleaca, Florian Dumitrache Rovena Pascu, S. Brajnicov and Ion Sandu</i>

S03-P05	Rare-earth doped, ternary garnets waveguides grown via pulsed laser deposition	<i>Jake J. Prentice, Sergey Kurylchyk, James A. Grant-Jacob, Robert W. Eason and Jacob I. Mackenzie</i>
S03-P06	Molecular beam epitaxy growth optimization of interband cascade infrared detectors on GaAs substrates	<i>Ł. Kubiszyn, D. Benyahia, K. Michalczewski, K. Hackiewicz, A. Kęłowski, P. Martyniuk, J. Rutkowski¹, J. Piotrowski</i>
S03-P07	Cation competition at the interface of muscovite mica	<i>Sander J.T. Brugman, Eleanor R. Townsend, Mireille M.H. Smets, Paolo Accordini and Elias Vlieg</i>
S03-P08	Effect of sodium silicate on microstructure, mechanical and dielectric properties of ceramic coatings formed on aluminum alloy by plasma electrolytic oxidation	<i>S. Rabadzhiyska, L. Kolaklieva, N. Electronov, R. Kakanakov, T. Cholakova, B. Rangelov, K. Balashev</i>
S03-P09	Strategies to narrow size distributions during epitaxial growth of surface nanostructures	<i>Vladimir G. Dubrovskii</i>
S03-P10	HVPE growth of thick α - and ϵ - Ga ₂ O ₃ layers	<i>V.I. Nikolaev, A.I. Pechnikov, V.V. Nikolaev, M.P. Shcheglov, S.I. Stepanov</i>
S03-P11	Controllable growth of large-area monolayer and multilayer graphene on off-axis 3C-SiC(111)	<i>Yuchen Shi, Alexei A. Zakharov, I. G. Ivanov, G. Reza Yazdi, V. Jokubavicius, M. Syväjärvi, R. Yakimova, Jianwu Sun</i>
S03-P12	Effect of adatom sink to atomic steps on the kinetics of Ge and Si two-dimensional island nucleation on Si(111)-(7×7) surface	<i>Alexey Petrov, Dmitry Rogilo, Dmitry Sheglov and Alexander Latyshev</i>
S03-P13	Physical Vapor Deposition of BiI ₃ at Nanoscale onto Amorphous Substrates	<i>Daiana Ferreira, H. Bentos Pereira, L. Fornaro</i>
S03-P14	Interaction of selenium molecular beam with atomically clean Si(111) surface studied by in situ REM	<i>Dmitry Rogilo, L. Fedina, Dmitry Sheglov and Alexander Latyshev</i>
S03-P15	Two-dimensional vacancy islands nucleation on large Si(001) terraces under sublimation, Si deposition and DC heating	<i>Sergey Sitnikov, Ekaterina Rodyakina, Alexander Latyshev</i>

S03-P16	The impact of the surface morphology and the spinodal alloy decomposition on optical features of the green emitting InGaN/GaN multiple quantum wells	<i>N.M. Shmidt, A.E. Chernyakov, N.A. Tal'nishnih, A.E. Nikolaev, A.V. Sakharov, V.N. Petrov, E.V. Guchina and E.I. Shabunina</i>
S03-P17	Diluted 2D electron gases in metamorphic InGaAs quantum wells	<i>G. Biasiol, S. Roddaro, and L. Sorba</i>
S03-P18	Growth of thin Pt films on 4H-SiC(0001) and graphene/4H-SiC surfaces	<i>K. Idczak, S. Owczarek, L. Markowski</i>
S03-P19	Metal organic vapor epitaxy of GaN on two dimensional BN	<i>Gene Siegel, Eric Blanton, N. R. Glavin, K. D. Chabak, and Michael Snure</i>
S03-P20	Growth of Au on Ge(111) by low Energy Electron Microscopy	<i>A. El-Barraj, S. Curiotto, P. Müller, F. Cheynis, and F. Leroy</i>
S03-P21	Multilayer Si growth modes on extremely wide Si(111) terraces at enhanced temperatures	<i>D. Rogilo, Sergey Sitnikov, L. Fedina, D. Sheglov and A. Latyshev</i>
S03-P22	Orientation-patterned GaP grown on inverted layer only templates for QPM frequency conversion devices	<i>Shivashankar Vangala, Michael Snure, Rita Peterson, and Vladimir Tassev</i>
S03-P23	Freezing emulsions: Interactions between solidification fronts and soft objects	<i>Sidhanth Tyagi, Cécile Monteux and Sylvain Deville</i>
S03-P24	Influence current density on morphology and corrosion resistance of PEO coatings	<i>Stanislava Rabadzhiyska, L. Kolaklieva, N. Electronov, R. Kakanakov, T. Cholakova, B. Ranguelov, K. Balashev</i>
S03-P25	Study of the influence of electron-beam treatment of Co-Cr substrates on the film growth mechanism of the deposited TiN/TiO ₂ coatings	<i>Stefan Valkov, Stoyan Parshorov, R. Bezdushnyi, D. Dechev, N. Ivanov, and P. Petrov</i>
S03-P26	Ultra-thin Pt films on silicon surfaces	<i>S. Owczarek, K. Idczak, L. Markowski</i>
S03-P27	Model for growth modes of PA MBE GaN nanowires	<i>Y. Berdnikov and N. V. Sibirev</i>
S03-P28	Temperature effect on epitaxial growth in Fe/Pt thin film spintronic heterostructures	<i>D. Karfaridis, G. Vourlias, Th. Kehagias, E. Th. Papaioannou, and Efsthios Polychroniadis</i>
S03-P29	Diffusion dynamics of atoms and clusters under electromigration: differences between adatoms at steps and adatoms on the surface	<i>Stefano Curiotto, A. El-Barraj, F. Cheynis, Pierre Müller, Michail Michailov, Fr. Leroy and Bogdan Ranguelov</i>

SESSION 4 Structural Defects and Impurities in Crystalline Materials

S04-P01	Optical characterization of Ca ₃ TaGa ₃ Si ₂₀ 1 ₄ single crystals	<i>A. O. Buzanov, N. S. Kozlova, <u>A. P. Kozlova</u> and E. V. Zabelina</i>
S04-P02	The effect of rare-earth doping on sintering and functional response of RE:YAG (RE = Nd ³⁺ , Yb ³⁺) transparent ceramics	<i>Ihor Vorona, Roman Yavetskiy, Alexander Tolmachev, Lucian Gheorghe, Cristina Gheorghe, G. Croitoru</i>
S04-P03	Numerical analysis of dependence of oxygen on dislocation generation in Si single crystal	<i>Tomoro Ide, <u>Satoshi Nakano</u>, Hirofumi Harada, Yoshiji Miyamura, Masato Imai, Koichi Kakimoto</i>
S04-P04	Numerical analyses and experimental validations on transport and control of carbon in in Czochralski silicon crystal growth	<i><u>Xin Liu</u>, Xue-Feng Han, S. Nakano, H. Harada, Y. Miyamura, and K. Kakimoto</i>
S04-P05	Nanogranular structure in nickel oxide single crystals	<i>S.I. Bozhko, K. Fleischer, A.M. Ionov, A. A. Mazilkin, I.A. Smirnova, B. Walls, I.V. Shvets, B. Mukhamedov, A.V. Ponomareva, I. A. Abrikosov and <u>D. A. Shulyatev</u></i>
S04-P06	Growth and spectral-luminescence characteristics of modified BGO crystals	<i><u>E. E. Dunaeva</u>, L.I. Ivleva, G.M. Kuz'micheva, K.N. Boldyrev</i>
S04-P07	Cr:Mg ₂ SiO ₄ Single Crystals Grown from MgO Enriched Melts	<i><u>Evgeny V. Zharikov</u>, K. A. Subbotin, V. V. Sanina, Valerii V. Voronov and Denis A. Lis</i>
S04-P08	Dopants occupying Nb site in over-threshold stoichiometric LiNbO ₃	<i><u>László Kovács</u>, Laura Kocsor, Éva Tichy-Rács, Krisztián Lengyel, and Gábor Corradi</i>
S04-P09	Influence of growth conditions on the optical properties of gamma irradiated BaF ₂ crystals	<i>Ir. Nicoara, <u>Marius Stef</u>, Stelian Arjoca, Constantin Daniel Negut and Daniel Vizman</i>
S04-P10	The importance of both Magnesium and Sulfate on the Stabilization of Aragonite	<i>Franca Jones, Andrew Rohl and <u>Matthew Boon</u></i>
S04-P11	Morphology and crystallography properties of Al ₂ O ₃ -Y ₃ Al ₅ O ₁₂ -ZrO ₂ ternary eutectic solidified by micro pulling down (μ-PD)	<i><u>Omar Benamara</u>, Kheirredine Lebbou</i>

SESSION 5 Crystal Growth and Characterization of Nanostructures, Low-dimensional and Confined Systems

S05-P01	Physical properties of the arrays of ZnO nanorods grown from solutions on patterned substrates	<i>Jan Grym, R. Yatskiv, Hana Faitová, Š. Kučerová, Ondřej Černohorský, N. Bašínová, S. Tiagulskiy, D. Roesel, and Jan Vaniš</i>
S05-P02	Development of growth technique for Tb doped GdAlO ₃ /a-Al ₂ O ₃ eutectic scintillator	<i>Kei Kamada, H. Yamaguchi, A. Yamaji, M. Yoshino, S. Kurosawa, Y. Shoji, Y. Yokota, Y. Ohashi, A. Yoshikawa</i>
S05-P03	Phase Transitions in Small Silicon Nanoparticles	<i>N. Boulkaboul, Lynda Amirouche and Sakir Erkoç</i>
S05-P04	Growth of nanocomposite material based on surface decoration of ZnO nanorods with gold nanoparticles	<i>M. Villani, S. Beretta, D. Calestani, N. Coppedè, F. Terenziani and <u>Andrea Zappettini</u></i>
S05-P05	Binary Mesocrystals from Anisotropic Nanoparticles	<i><u>Christian Jenewein</u> and Helmut Cölfen</i>
S05-P06	Composite nanoparticles with "core/shell" structure: synthesis, characteristics, properties	<i><u>G. Kuz'micheva</u>, O. Timaeva and R. Svetogorov</i>
S05-P07	Overgrowth on nanostructured diamond: a route towards optimized photonic devices and low dislocation density?	<i>Lahcene Mehmel, Riadh Issaoui, Alexandre Tallaire, V. Mille, Ovidiu Brinza and J. Achard</i>
S05-P08	Preparation of rare-earth-doped LiNbO ₃ nanocrystals by ball-milling for quantum optical experiments	<i><u>Laura Kocsor</u>, László Péter, Éva Tichy-Rács, Kr. Lengyel, László Kovács and Zsolt Kis</i>
S05-P09	Metal monatomic nanowires on heteroepitaxial interfaces: Atomic-scale scenario of breakdown and complete disintegration	<i>George Kochylis, Michael Kanetidis, Bogdan Ranguelov, Panos Argyrakis and <u>Michail Michailov</u></i>
S05-P10	Determination of zinc ion concentration in solution during the growth of ZnO nanorods	<i><u>Nikola Basinova</u>, Ondrej Cernohorsky, and Jan Grym</i>
S05-P11	Understanding the crystal growth mechanism of one dimensional rods and two dimensional sheets of ZnO nanocrystals	<i><u>Sahil Goel</u>, Nidhi Sinha and Binay Kumar</i>

S05-P12	Iron- and Cobalt-based Nanoparticles as Electrode Materials	<i>Sascha Keßler and Helmut Cölfen</i>
S05-P13	Hybrid GaAs nanowire-polymer device on glass: Al-doped ZnO (AZO) as transparent conductive oxide for nanowire based photovoltaic applications	<i>Vladislav Khayrudinov, Veer Dhaka, A. Perros, T. Hagren, H. Jussila and Harri Lipsanen</i>
S05-P14	Growth and Characterizations of Superconducting $\text{In}_x\text{Sn}_{1-x}\text{Te}$ Nanomaterials	<i>Zhiwei Wang, Mengmeng Bai, Felix Münnig and Yoichi Ando</i>

SESSION 6 Crystallization of Inorganic Materials

S06-P01	Crystal growth in the Ce-M-Bi system (M= Pd, Pt)	<i>Sami Dzsaber, Xinlin Yan, R. Svagera, Monika Waas, Silke Paschen, <u>Andrey Prokofiev</u></i>
S06-P02	Metastable Zone Width of Sodium Perborat in the Presence of Anionic Polyelectrolytes	<i>Bercem Kiran-Yildirim, Aybala Gencaslan, Sibel Titiz-Sargut, G. Yildiz Yuksel, A. Nusret Bulutcu</i>
S06-P03	Aqueous solution growth at 200°C and characterizations of pure, 17O- and D-based herbertsmithite $\text{ZnCu}_3(\text{OH})_6\text{Cl}_2$ single crystals	<i>Matias Velazquez, Fabrice Bert, Philippe Mendels, Philippe Veber, Michel Lahaye, C. Labrugère</i>
S06-P04	Effect of tiny amount of impurities on dendritic crystal growth in binary melts	<i>Peter Galenko, Dmitry Alexandrov, Oleg Kazak and <u>Ilya Starodumov</u></i>
S06-P05	Growth of $\text{NaGd}(\text{MoO}_4)_2$ Crystals from Non-Stoichiometric Melts	<i><u>Evgeny V. Zharikov</u>, Kirill A. Subbotin, A. Titov, Valerii V. Voronov, Valerii G. Senin, V. Dudnikova and D. Lis</i>
S06-P06	Bio-inspired hybrid calcite single crystals for applications in medicine, agriculture and material science	<i><u>Giuseppe Falini</u></i>
S06-P07	Thermodynamic analysis of chemical vapor transport of zinc oxide	<i><u>Robert Heinemann</u> and Peer Schmidt</i>
S06-P08	Electric field effects during solidification of the ternary oxide eutectic $\text{Al}_2\text{O}_3\text{-YAG-ZrO}_2$	<i><u>T. Duffar</u>, M. Cherif, P. Hicher, O. Benamara, K. Lebbou, R. Haumont</i>

S06-P09	Influence of Firing Parameters on the Crystallinity and Morphology of the Ternesite	<i>Karel Dvořák, Dominik Gazdič and Marcela Fridrichová</i>
S06-P10	Effect of limestone origin to the CaCO ₃ decomposition process and subsequent to crystallization process of CaO	<i>Dorothea Sklenářová, Karel Dvořák, Diana Mária Koporcová, S. Ravaszová</i>
S06-P11	Influence of calcium and aluminum on crystal growth kinetics and morphology of vivianite, Fe ₃ (PO ₄) ₂ ·8H ₂ O	<i>Hans E. Lundager Madsen</i>
S06-P12	Self-organization Phenomena and Pattern Formation during Electrodeposition of Alloys	<i>I. Krastev, Ts. Dobrovol'ska, V. Kostov, M. Georgiev</i>
S06-P13	The Growth and Dissolution of Sodium Perborate Tetrahydrate in the Presence of Silica in a Fluidized Bed Crystallizer	<i>Aybala Gencaslan, Berceem Kiran-Yildirim, Demet Orhan, Sibel Titiz-Sargut</i>
S06-P14	Monitoring of the crystallization process in the preparation of the triclinic alite	<i>Simona Ravaszová, Karel Dvořák, Dorothea Sklenářová</i>

SESSION 7 Crystallization in Organic and Biological Systems

S07-P01	Bioinspired mineralization of type I collagen fibrils with apatite in the presence of citrate and europium ions	<i>Jaime Gómez Morales, R. Fernandez Penas, Cr. Verdugo Escamilla, L. D. Esposti, Jorge F. F. Sánchez, Michele Iafisco</i>
S07-P02	Influences of Agglomeration and Breakage of Alanine and Asparagine on Calcium Pyrophosphate Dihydrate Crystallization	<i>Aybala Gencaslan, Sibel Titiz-Sargut,</i>
S07-P03	Crystal size distribution resulting from the time dependence of crystal nucleation	<i>Christo N. Nanev</i>
S07-P04	Nonstoichiometry of metal-organic electrophosphor crystals	<i>Igor Avetissov, Alina Akkuzina and Roman Avetisov</i>
S07-P05	Influence of bacteria on crystallization processes on the example of an effect of <i>Proteus mirabilis</i> on the growth of struvite	<i>Jolanta Prywer</i>

S07-P06	Crystallization of spherulitic semi-crystalline polymers	<i>S��verine A.E. Boyer, Jean-Marc Haudin</i>
S07-P07	Imide-Mimetic Supramolecular Gelators for Controlled Crystallizations of Pharmaceutical Polymorphs	<i>Basanta Saikia, Matt Mulvee, Ivan Torres Moya, Bipul Sarma and J. W. Steed</i>
S07-P08	Fine control of insulin crystalline products by precise pH titration	<i>Feyzim Hodzhaoglu, Guillermo Galardo and Jose Gavira</i>
S07-P09	Apoferritin crystal nucleation in a wide temperature range	<i>Ivaylo L. Dimitrov</i>
S07-P10	Predicting properties of struvite crystal with density functional theory methods	<i>D. Sidorczuk, K. Pernal, B. Civalleri, and Jolanta Prywer</i>
S07-P11	Inhibitors of calcium oxalate monohydrate crystallization	<i>Y.V.Taranets, O.N.Bezkrovnyaya, I.M.Pritula</i>
S07-P12	Effect of reactor scale size and operating conditions on metastable zone width in crystallisation of para-amino benzoic acid	<i>Nur Zainal Abidin, Siti Mohd Noor, D. Camacho, CaiYun Ma, Tariq Mahmud, and Kevin Roberts</i>
S07-P13	Polymorphic structural transition of patchy-particle ensemble with anisotropic interactions	<i>Bogdan Rangelov, Michail Michailov, Christo Nanev</i>

SESSION 8 Industrial Crystallization, Technologies and Process Control

S08-P01	Crystallization of Sodium Dodecyl-Sulfate Micellar Solutions Under Isothermal & Linear Cooling Conditions	<i>Ruhina M. Miller, Andreas S. Poulos, Eric S. J. Robles, Nicholas J. Brooks, Jo��o T. Cabral and Oscar Ces</i>
S08-P02	Crystals and crystal structures of vanillate esters and zingerone	<i>Andrea Erxleben, Patrick McArdle and Marwah Aljohani</i>
S08-P03	SrI2(Eu) scintillation crystal growth by multi-ampoule single-zone VGF technique	<i>V. Taranyuk, A. Gektin, O. Sidletskiy, N. Nazarenko, A. Kolesnikov</i>
S08-P04	How to do an effective optimization of industrial crystal growth furnace by numerical simulation?	<i>Florica Barvinschi, Thierry Duffar</i>

S08-P05	Measurement of the crystallization kinetics of L-asparagine monohydrate from aqueous L- and DL-asparagine solutions	<i><u>Erik Temmel</u>, Jonathan Gänsch, Andreas Seidel-Morgenstern, Heike Lorenz</i>
S08-P06	Experimental and numerical investigation of laboratory crystal growth furnace for the development of model-based control of CZ process	<i><u>Kristaps Bergfelds</u>, Mihails Pudzs, Andrejs Sabanskis and Janis Virbulis</i>
S08-P07	GaNification of Modern Electronics- problems related to crystal growth	<i><u>Mike Leszczynski</u>, Piotr Perlin, Ewa Grzanka, Szymon Grzanka, Marcin Sarzynski</i>
S08-P08	Crystallisation of Wax like Materials Used in Cosmetics	<i><u>Paul Lewis</u>, Xiaojun Lai, Kevin Roberts and Simon Greener</i>
S08-P09	Structure and morphology of MnSi1.7 powder synthesized by pack cementation	<i>A. Teknetzi, D. Stathokostopoulos, E. Tarani, Eleni Pavlidou, K. Chrissafis, George Vourlias and <u>Efstathios K. Polychroniadis</u></i>
S08-P10	CFD-Population balance modelling of batch cooling crystallisation processes using kinetic parameters estimated from a mechanistic model	<i>Diana Camacho, CaiYun Ma, <u>Tariq Mahmud</u>, and Kevin Roberts</i>
S08-P11	Microfluidic platform for solid state study of Active Pharmaceutical Ingredient	<i><u>Peybernès Guillem</u>, Romain Grossier, Nadine Candoni, Stéphane Veessler, Fr. Villard, Ph. Lettelier</i>

SESSION 9 Novel Materials and Structures

S09-P01	Growth and scintillation parameters of SrI ₂ :Eu with low activator concentration	<i><u>A. Smerechuk</u>, E. Galenin, O. Sidletskiy</i>
S09-P02	Magneto-optical properties of potassium terbium fluoride	<i><u>David E. Zelmon</u>, Greg Foundos, and Kevin T. Stevens</i>
S09-P03	Plasmonic materials/metamaterials and other novel photonic materials obtained by crystal growth	<i>K. Sadecka, P. Paszke, R. Nowaczyński, K. Wysmulek, J. Sar, K. Kolodziejak, A. Klos, B. Surma, A. Belardini, J. Toudert, C. Sibilila, and <u>D. A. Pawlak</u></i>

S09-P04	Functional Polymer Nanofibers Obtained by Electrospinning	<i>Monica Enculescu, Alexandru Evanghelidis, and Ionut Enculescu</i>
S09-P05	Structural and electrical properties of epitaxial AlN films on GaN grown by low temperature plasma-assisted atomic layer deposition	<i>E. Schilirò, F. Giannazzo, R. Lo Nigro, G. Greco, F. Roccaforte, P. Prystawko, P. Kruszewski, M. Leszczyński, A. Michon, Y. Cordier, I. Cora, B. Pecz, H. Gargouri</i>
S09-P06	Novel composites type Ni-Zn and Ni-Cu ferrites hosted in activated carbon from waste materials: Formation of ferrite phase and application as catalysts for methanol decomposition	<i>T. Tsoncheva, Isabela Genova, I. Spassova, D. Kovacheva, D. Paneva, D. Karashanova, M. Dimitrov, N. Velinov, B. Georgieva, I. Mitov, and N. Petrov</i>
S09-P07	Crystal growth of hexaferrites M structure Sr Cox Fe12-x O19 by floating zone melting	<i>A.M. Balbashov, M.E. Voronchikhina, A.A. Mukhin, V.Yu. Ivanov, L.D. Iskhakova</i>
S09-P08	Growth and properties of K7CaR2(B5O10)3 (R=Nd, Yb, Y) nonlinear crystals	<i>Artem Kuznetsov, K. Kokh, N. Kononova, V. Shevchenko, S. Rashchenko, E. Pestryakov, V. Svetlichnyi, D. Ezhov, Alexander Kokh</i>
S09-P09	Thiophene-phenylene co-oligomer single crystals: effect of terminal substituents on structural and electronic properties	<i>Dmitry Dominskiy, A. Sosorev, Natalia Sorokina, Oleg Borshchev, S. Ponomarenko, D. Paraschuk</i>
S09-P10	Crystallization of low- and high-temperature phases in the SrO-TiO2 system	<i>D. Pulmannová, C. Besnard, and E. Giannini</i>
S09-P11	Highly transparent Yb:Y2O3 ceramics obtained by solid-state reaction and combined sintering procedures	<i>George Stanciu, Lucian Gheorghe, F. Voicu, St. Hau, Cr. Gheorghe, Tr. Dascalu, Monica Enculescu</i>
S09-P12	GROWTH AND LUMINESCENCE PROPERTIES OF LiNa5Mo9O30 SINGLE CRYSTALS	<i>Sukharev V.A., Sukhanova E.A., Spassky D.A., Podurec K.M, Nagirnyi V., Omelkov S.I., Sadovsky A.P., Avetissov I.Ch.</i>
S09-P13	Electrocrystallization and Characterization of Pd/Ni Electrocatalysts	<i>N. Dimitrova, J. Georgieva, M. Monev and Tz. Boiadjieva-Scherzer</i>
S09-P14	Characterization of Pt(Cu)TiO2 nano-catalyst for methanol oxidation	<i>Nina Dimitrova, J. Georgieva, Hazar Guesmi, Tz. Boiadjieva-Scherzer</i>

S09-P15	Single crystal growth of (Ga,Sn)Pd ₂ by the Czochralski method for basic research in heterogeneous catalysis	<i>Kristian Bader, Peter Gille</i>
S09-P16	Comparison between conventional and plasma enhanced atomic layer deposition processes for the growth of HfO ₂ thin films	<i>R. Lo Nigro, G. Mannino, E. Schilirò, S. Di Franco</i>
S09-P17	BP ₄ O crystals doped by rare-earth metals: growth and luminescent properties	<i>M. Artyushenko, A. Sadovskiy, I. Avetissov</i>
S09-P18	New orthoborates RSc(BO ₃) ₂ (R=Sm-Yb), their structure and properties	<i>Nadezda Kononova, Artem Kuznetsov, A. Kokh, V. Shevchenko, K. Kokh, S. Rashchenko, V. Svetlichnyi, Ivan Lapin, Aset Bolatov, B. Uralbekov</i>
S09-P19	Laser processing and its effect on CaMnO ₃ thermoelectric material	<i>N.M. Ferreira, N. R. Neves, A. Davarpanah, A. Madre, A. Sotelo, F.M. Costa, A.V. Kovalevsky</i>
S09-P20	Growing of YAG:Ce-Al ₂ O ₃ crystals for power white lighting	<i>Oleh Vovk, S. Nizhnikovskiy, S. Kryvonogov, Yu. Siryk, P. Mateichenko, and Igor Pritula</i>
S09-P21	Martensitic Transformations in Mn Alloy with Low Stacking Fault Energy	<i>Stoyan Parshorov</i>
S09-P22	Crystal Growth and Properties of An Isoxazolone-based Organic Nonlinear Optical Crystal C ₁₇ H ₁₃ N ₃ O ₃	<i>Xinyuan Zhang, P. Liu, Guochun Zhang, D. Xu, Jiyang Wang, Zhanggui Hu, Yicheng Wu, Jianquan Yao</i>
S09-P23	Formation of active phase in cobalt catalysts based on activated carbon from various waste materials	<i>I. Genova, S. Marinov, T. Tsoncheva, M. Dimitrov, T. Budinova, D. Kovacheva, L. Gonsalvesh-Musakova</i>
S09-P24	Copper-zinc ferrite hosted in mesoporous titania-tin binary oxide: Physicochemical and catalytic study	<i>I. Genova, T. Tsoncheva, M. Dimitrov, D. Paneva, N. Velinov, J. Henych, M. Kormunda, J. Tolasz, D. Kovacheva, Vaclav Štengl</i>
S09-P25	CaCO ₃ Composites as Sorbents for Ionic Molecules	<i>Ion Bunia, Narcisa Marangoci, and Marcela Mihai</i>
S09-P26	New composite materials based on chitosan/starch beads and CaCO ₃	<i>Diana Felicia Loghin and Marcela Mihai</i>

SESSION 10 New Methods and Techniques for Crystal Growth

S10-P01	Reduction of induction time using ultrasound and rotor stator mixers in a continuous anti-solvent crystallization process	<i><u>Arne Vancleef</u>, Jeroen Jordens, Tom Van Gerven, Leen C. J. Thomassen, Leen Braeken</i>
S10-P02	Laser-Assisted Flow Deposition: new insights on ZnO growth	<i>Joana Rodrigues, António J. S. Fernandes, Teresa Monteiro, <u>Florinda M. Costa</u></i>
S10-P03	Reduction of thermal stress in long VGF- GaAs crystals using top TMF	<i><u>Natasha Dropka</u></i>
S10-P04	Dopant distribution in crystals grown by the Silicon granulate crucible method	<i><u>Robert Menzel</u>, Kaspars Dadzis, Nikolay Abrosimov and Helge Riemann</i>
S10-P05	Growth of ZnO film in wet process using novel solution under argon atmosphere	<i>Masayuki Hirata, Manato Takeuchi, Himeka Tominaga and <u>Kenji Yoshino</u></i>
S10-P06	Influence of the forced convection on the growth interface shape and impurities distribution in Czochralski growth of lithium molybdate scintillating crystals	<i><u>Carmen Stelian</u>, Matias Velázquez, Ph. Veber, Abdelmounaim Ahmine, Jean-Baptiste Sand, G. Buşe, and Thierry Duffar</i>
S10-P07	The LiB3O5 (LBO) crystals habitus modification by the heat field configuration	<i><u>Alexander Kokh</u>, Nadegda Kononova, V. Vlezko, and Dmitry Kokh</i>
S10-P08	In-situ detectability of crystallization processes in high temperature solutions	<i><u>Andreas Schneider</u>, Anton Jesche</i>
S10-P09	Scale-up effects in directional solidification of silicon under the combined influence of electrical current and magnetic field	<i><u>Andrei Cordos</u>, Al. Popescu, Daniel Vizman, R. A. Negriła</i>
S10-P10	Improvement of the quality of ZnGa2Se4 crystals grown by the Bridgman method simulating the melt behavior subject to an oscillating rotation profile	<i><u>Vincent Tabouret</u>, Bruno Viana and Johan Petit</i>

SESSION 11 Advances in Observation and Characterization Methods

- S11-P01** The Influence of Solution Environment on Face-Specific Retreat Rates that are Associated with the Dissolution of Urea Single Crystals *Toshiko Izumi, Kevin J. Roberts and Aatika Rizvi*
- S11-P02** Effect of additives and isothermal annealing on the intermetallic phases behavior of Al-Si based eutectic and hypo-eutectic alloys. *Lynda Amirouche, Zakia Sersour*
- S11-P03** Crystal growth at crystallization of amorphous films of HfO₂ *Aleksandr Bagmut, Ivan Bagmut, Gregory Nikolaychuk*
- S11-P04** Layer, island and dendrite polymorphous crystallizations of amorphous films as morphological analogs of Frank-van der Merwe, Volmer-Weber and Stranski-Krastanov growth modes *Aleksandr Bagmut*
- S11-P05** In-situ characterization of phase separation in elpasolites *Edith Bourret, Didier Perrodin and Anton Tremsin*