

Program of poster sessions on 19th Sep.

Poster session I: 13:30 – 15:00 RoomB

Core time: 13:30 – 14:15 for odd-numbered posters, 14:15 – 15:00 for even-numbered posters

P1-01 Growth of Conductive Filaments in a W/2D Cu-doped SiO₂/Ag Memristive Device: Formation, Dissolution and Vaporization

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P1-02 Nonlinear optical thermometry with NV- and NV0 centers in nanodiamonds

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P1-03 Structure-Property Relationships in Cr³⁺-Activated GdAlO₃ and LaAlO₃ systems for Luminescence Thermometry

*Jacopo Cangiotti¹, Otgondemberel Galaaraidii^{1,2}, Laura Gardini¹, Filippo Galiuzzo¹, Hirohisa Miyata³, Khishigjargal Tegshjargal², Norov Erdene², Pietro Riello¹, Jumpei Ueda³, Michele Back¹

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2. National University of Mongolia (Mongolia)
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P1-04 Second-order Nonlinear Polarization Generated via Above-Barrier States in GaAs Layers on an InAs/GaAs Quantum Dot System

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P1-05 Bandgap Engineering of Tantalum Nitride Thin Films by Ion-Assisted Reactive Magnetron Sputtering

*Galina Nagicheva¹, Mikhail Vostokov¹, Michael Chesaux², Jacek Wojcik², Attila Csík³, Sandor Kokenyesi⁴, Dino Deligiannis², Alla Reznik^{1,5}

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P1-06 Growth of AgIn(S_xSe_{1-x})₂ Semiconductor Crystals and the Temperature Dependence of Their Bandgap Energies

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P1-07 Surface plasmon-enhanced photoluminescence in ZnSe quantum dots for high-efficiency deepblue light-emitting diodes

Takayuki Kinoshita¹, Hironobu Azuma¹, Shogo Tokimori¹, Ryohei Hatsuoka¹, Tomoki Nagaoka¹, Takashi Nagase¹, Takashi

Kobayashi¹, Hiroshi Ikeda¹, Koichi Okamoto¹, *Hiroyoshi Naito^{1,2}

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P1-08 Short-Term Optical Memory in Phase-Engineered α/δ -FAPbI₃ Bilayer Photomemristors

*Kenshin Magata¹, Daichi Okada¹, Yuhi Inada¹, Kenichi Yamashita¹

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P1-09 Comparison of Oxygen- and Argon-Ion-Assisted PVD of PbO Photoconductive Layers for X-ray Imaging

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P1-10 Photo-Induced Alignment Change of None-Fullerene Acceptors doped Liquid Crystals

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(No Show)

P1-11 Oxide-on-Oxide Interfaced Spheres for Enhanced Charge Separation

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(No Show)

P1-12 Construction of Shell/shell-Hollow Structures for Photoinduced Energy Conversion Reaction

*WAJAHAT WAHEED KAZMI¹, Faysal M. Al-Khulaifi¹

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P1-13 First-principles optical constants of α -, β -, and γ -MAPbI₃ and their impact on perovskite solar cell performance

*Zhansaya Omarova¹, Madina Seisembayeva¹, Erik Shalenov¹, Ranna Masheyeva^{1,2}, Yeldos Seitkozhanov^{1,3}, Ayazhan Dossymbekova¹

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P1-14 Origin of Circular Dichroism in Organic Single-Crystal Microcavities

*Rina Nishihara¹, Reo Ohkura¹, Takaya Inukai¹, Daichi Okada¹, Shun Takahashi¹, Kenichi Yamashita¹

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P1-15 Observation of Room-Temperature Polariton Topological Modes in Organic Microcavities

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P1-16 Room-temperature polariton condensation in CsPbBr₃ planar traps

*Tohki Inoue¹, Taiki Ogura¹, Daichi Okada¹, Shun Takahashi¹, Kenichi Yamashita¹ 1.

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P1-17 Characterization of Silver Nanoparticles in Heavy-Metal-Oxide Glasses

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P1-18 Observation of metal processing surface texture by multi-mode pupil-segmented polarization microscope

*Norimasa Tsutsui^{1,2}, Koumei Okahara², Xiaoqian Wang¹, Keisuke Yoshiki¹, Hiroshi Ikenoue¹

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P1-19 First-Principles Calculations of the Stability and Electronic States of Si and C Vacancies in 3C-SiC Quantum Dots

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P1-20 Emission wavelength tuning on CsPbBr₃ quantum dots via photo-induced halogen substitution

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P1-21 Decay Time of Coherent Longitudinal Optical Phonons in a p-type InSb Single Crystal: Its Dependence on Photogenerated Carrier Density

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P1-22 Circularly Polarized Luminescence through Strong Light-Matter Coupling in Chiral Perovskite Single Crystal Microcavities

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P1-23 Quantum chemical prediction of electronic transport properties in amorphous organic semiconductors for optoelectronic devices

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P1-24 Correlation between Si-C Bonding States and Photoluminescence Properties in RF Magnetron-Sputtered SiC Ultrathin Films

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P1-25 Effects of High-Temperature Rapid Thermal Annealing on the Electrical Properties of Ag-N Codoped ZnO Thin Films

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P1-26 Structural, Optical, and Electrical Properties of AZO Thin Films Prepared by RF Reactive Co-Sputtering Using a Zn Target with Al Chips

*Toshitaka Hayashi¹, Hiroshi Katsumata^{1,2}

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P1-27 Lightweight Flexible Photodetectors Based on PEDOT:PSS/SnS₂/Green Graphene Double Heterostructures

*Yi-Chen Lee¹, Yi-Chen Lin¹, Shu-Yu Lin¹, Chiao-Deng Yeoh¹, Po-Kai Chen¹, Chen-Fang Kang¹, Meng-Lin Tsai², Po-Kang Yang³, Dung-Sheng Tsai¹

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P1-28 Fabrication of Organic–Inorganic Hybrid Optical Waveguides via Sol–Gel Processing and Photolithography

*HSIU YING Yuan HUANG¹, Ruth Jeane Soebroto¹, Jui-Ming Yeh¹, Chi-Tsu Yuan¹ 1.
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P1-29 Photoluminescence and scintillation properties of Nd- and Yb-doped FAP transparent ceramics

*Takayuki Yanagida¹, Keita Miyajima¹, Kai Okazaki¹, Takayuki Nakanishi², Hiroaki Furuse², Hiromi Kimura³, Takumi Kato¹, Daisuke Nakauchi¹, Noriaki Kawaguchi¹
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(No Show)

P1-30 Triplet Energy Gap-Directed Donor Engineering for Color-Tunable Guest-Host Afterglow Systems

*Tapashi Sarmah Sarmah¹
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P1-31 Investigation of Charge Carrier Pathways in Eu-activated Aluminate Phosphors

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(No Show)

P1-32 Luminescent Flexible Polymeric Films Based on PMMA, PVA and HPMC Embedded with MTPP[Eu(tta)₄] as Red-Sunlight-Responsive Emitters

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P1-33 Photoluminescence and Thermally Stimulated Luminescence Properties of Tb-doped Al₂O₃-SiO₂ Glasses

*Keita Miyajima¹, Akihiro Nishikawa¹, Takumi Kato¹, Daisuke Nakauchi¹, Noriaki Kawaguchi¹, Takayuki Yanagida¹ 1.
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P1-34 Optical and Scintillation Properties of Erbium-Doped Yttrium Oxide Transparent Ceramic Scintillators Fabricated by the Spark Plasma Sintering Method

*Yuma Saito¹, Shota Otake¹, Takumi Kato¹, Daisuke Nakauchi¹, Noriaki Kawaguchi¹, Takayuki Yanagida¹ 1.

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P1-35 Broadband Orange-Red Luminescence of Sb³⁺-doped Ca₂SiS₄ phosphors

*Yasushi Nanai¹, Tsuyoshi Okuno²

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P1-36 Development of Plastic Scintillators Containing Thermally Activated Delayed Fluorescence Molecules for Improved Scintillation Light Yield

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P1-37 Evaluation of Radiation Response Characteristics of Polyvinyl Chloride Containing Rhodamine B

*Tomoaki Yashiro¹, Masanori Koshimizu¹

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(No Show)

P1-38 Optical properties of graphite-like 2D layers studied by classical and FTIR ellipsometry

*Janusz Jaglarz Jaglarz¹

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P1-39 Luminescence Response of Scintillator Crystals under Clinical Proton Beam Irradiation

*Keisuke Nobutoki¹, Shota Otake², Takeshi Ubukata³, Kensei Ichiba⁴, Takumi Kato², Takayuki Yanagida², Toshiyuki Toshito⁵, Ge Yutong¹, Masataka Komori¹, Katsunori Yogo¹

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P1-40 Radiophotoluminescence characteristics of LiF transparent ceramics

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P1-41 Scintillation Light Yields of Bi₄Ge₃O₁₂ and Bi₄Si₃O₁₂ Dependent on Excitation Density of Charged Particles

*Masanori Koshimizu¹, Haruaki Ezawa², Keita Miyajima², Yuma Saito², Itsuki Gonda², Kohtaku Suzuki³, Kenta Kotera⁴, Hiroki Yamada⁴, Kenichi Watanabe⁵, Takayuki Yanagida²

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Poster session II: 15:30 – 17:00 RoomB

Core time: 15:30 – 16:15 for odd-numbered posters, 16:15 – 17:00 for even-numbered posters

P2-01 Auger-free luminescence due to interatomic radiative transitions between Cl 3p valence band and Zn 3d outermost-core level in K_2ZnCl_4 crystals

Akimasa Ohnishi¹, *Mamoru Kitaura¹

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P2-02 Chemical Bonding, Lone-Pair Stereochemistry, and the Nearly Isotropic Optical Response of $TlSr_2X_5$ (X = Cl, Br, and I) ternary halide scintillators

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P2-03 Neutron-induced thermoluminescence properties of Sm^{3+} -doped $LiYSiO_4$ ceramics

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P2-04 Optically-stimulated luminescence of NaBr:Yb single crystals for X-ray imaging with high spatial resolution

*Arisa Seguchi¹, Keiichiro Miyazaki¹, Hiromi Kimura², Daisuke Nakauchi¹, Takumi Kato¹, Noriaki Kawaguchi¹, Takayuki Yanagida¹

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P2-05 Radiation response in the Nd-doped $ZnCl_2$ - ZnO - TeO_2 glasses

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P2-06 Scintillation Properties of Pr-doped $GdTa_3O_9$ Single Crystals

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P2-07 Radiophotoluminescence properties in Ag-doped sodium phosphate glass-ceramics

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P2-08 Luminescence properties of organic–inorganic hybrid compounds with various heterocyclic amines

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P2-09 NIR scintillation properties of Er³⁺-doped 20ZnO–52Bi₂O₃–28SiO₂ glasses

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P2-10 Radiation-induced Luminescence Properties of TbOOH Single Crystal Synthesized by the Hydrothermal Method

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P2-11 X-ray induced radiophotoluminescence in Ag: NaBr transparent ceramics

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P2-12 Praseodymium-Doped Sr₂MgSi₂O₇ Single Crystals as Scintillators for α -Ray Detection

*Keiichiro Miyazaki¹, Daisuke Nakauchi¹, Takumi Kato¹, Noriaki Kawaguchi¹, Takayuki Yanagida¹

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P2-13 Synthesis and characterization of Eu-activated barium fluorohalide translucent ceramics for scintillator applications

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P2-14 Scintillation properties of Ce-doped La₂O₃–Gd₂O₃–SiO₂–P₂O₅ glasses

*Akihiro Nishikawa¹, Takumi Kato¹, Daisuke Nakauchi¹, Noriaki Kawaguchi¹, Takayuki Yanagida¹

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P2-15 Development of Ce-doped silicate nanoparticle scintillators for biomedical applications

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P2-16 Examination of photoluminescence from Sm²⁺ doped BaCl₂ nanocrystals in fluorochlorozirconate glasses and nanocrystalline x-ray scintillators

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P2-17 Radiation-induced Luminescence Properties of Yb-doped Sr₂La_{2/3}V₂O₈ Single Crystals

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P2-18 Photoluminescence and Scintillation Properties of Ni-doped Y₃Al₅O₁₂ Single Crystals Grown by the Floating Zone Method

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P2-19 Prediction of trap depth based on the solid state electronic structure analysis of La₂O₂SO₄:Eu³⁺

*Ryota Inomata¹, Hirohisa Miyata¹, Jumpei Ueda¹

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P2-20 Effects of Heat-Treatment Conditions of Optical and Persistent Luminescence Properties of Ca₂Al₂SiO₇:Eu²⁺-Tm³⁺ glass ceramics

*Tsubasa Yoshikawa¹, Hirohisa Miyata¹, Jumpei Ueda¹

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P2-21 Radiation Response Properties of Copper Iodide Cluster Crystals with 15-Crown-5-Alkali Metal Complexes

*Keishi Yamabayashi¹, Daisuke Nakauchi¹, Itsuki Gonda¹, Takumi Kato¹, Noriaki Kawaguchi¹, Takayuki Yanagida¹

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P2-22 The Effects of Ce-Doping on the Luminescence of MgAl₂O₄

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P2-23 Thermoluminescence and Optically Stimulated Luminescence in Eu-doped Sodium Aluminoborosilicate Glass

*Caroline Paschoal Fernandes¹, Rene Rojas Rocca², Sonia Hatsue Tatum^{2,1}

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P2-24 Scintillation Properties of Organic-Inorganic Hybrid Copper Chloride Cluster Single Crystals Containing 15-Crown-5 Metal Complexes

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P2-25 X-ray dose-rate response characteristics of Er-doped GeS₂-Ga₂S₃-CsBr chalcogenide glasses

*Satoshi Yamada¹, Akihiro Nishikawa¹, Keita Miyajima¹, Daiki Shiratori², Takumi Kato¹, Daisuke Nakauchi¹, Noriaki Kawaguchi¹, Takayuki Yanagida¹

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P2-26 Tetraphenylethylene organic scintillation crystal exhibiting aggregation-induced emission

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P2-27 Visualizing non-radiative process of photoexcited electrons following photo-ionization of Ce³⁺ ions in Gd₃Ga₅O₁₂:Ce crystal by pump-probe XANES experiment

*Shunsuke Onozato¹, Mamoru Kitaura², Akimasa Ohnishi², Shunsuke Nozawa³, Rie Haruki³, Ryo Fukaya³, Kei Kamada⁴, Kyoung Jin Kim⁵, Akira Yoshikawa^{4,5}, Shinta Watanabe⁶

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P2-28 Scintillation of Ce:La-GPS single crystal for tritiated water detection

Ichiro Nishii¹, Tomone Suganuma¹, Takahiro Horiai², Masao Yoshino³, Masanori Hara⁴, Yuki Abe¹, Masahiro Tanaka⁵, Yuui Yokota⁶, Makoto Nakajima¹, Keisuke Shigemori¹, *Kohei Yamanoi^{1,5}

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4. University of Toyama (Japan)
5. National Institute for Fusion Science (Japan)

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P2-29 Effects of Li and Na Codoping on the Scintillation Properties of $\text{Sr}_2\text{Mg}(\text{BO}_3)_2\text{:Ce}$ Single Crystals

*Reiji Yamashiro¹, Yuma Takebuchi¹, Hiromi Kimura², Daisuke Nakauchi³, Keitaro Tezuka¹, Takayuki Yanagida³

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P2-30 Dosimetric Characterization of Europium-doped $\text{Ba}(\text{Al}_{1-x}\text{Ga}_x)_2\text{S}_4$ Solid Solutions

*Sho Fujikura¹, Yuma Takebuchi¹, Hiromi Kimura², Keitaro Tezuka¹

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P2-31 Evaluation of scintillation properties of Tb-doped $\text{PbO-Na}_2\text{O-B}_2\text{O}_3$ glasses

*Shoma Suzuki¹, Yuma Takebuchi¹, Sho Fujikura¹, Hiromi Kimura², Keitaro Tezuka¹

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P2-32 Effect of Growth Atmosphere on Scintillation and Thermally Stimulated Luminescence Properties of Dy-Doped CaGdAlO_4 Single Crystals

*Kosei Katayama¹, Yuma Takebuchi¹, Reiji Yamashiro¹, Kazuhiro Yamaki¹, Keitaro Tezuka¹

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(No Show)

P2-33 Graphene Oxide-Engineered $\text{BaY}_2\text{ZnO}_5\text{:Eu}^{3+}$ Red Phosphors with Enhanced Photoluminescence and Tunable Emission for Photonic Applications

*Kun-Yauh Shih¹, Hsiang-Ju Shih¹

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P2-34 Advanced LED Excitation Systems for Optical Spectroscopy

*Maciej GRZEGORCZYK Grzegorz¹, Natalia Majewska², Sebastian Mahlik¹

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2. Adam Mickiewicz University (Poland)

(No Show)

P2-35 Investigation of Optically Stimulated Luminescence of Brazilian Fluorapatite Mineral

*Frantz Sagbvagare Vieira^{1,2}, Matheus Cavalcanti dos Santos Nunes^{1,2}, Neilo Marcos Trindade¹

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P2-36 Luminescence properties of hydrothermally synthesized $\text{Al}_2\text{O}_3\text{:C,Mg}$

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P2-37 Optically Stimulated Luminescence Properties of the GreenSpar Lunar Regolith Simulant Under Beta, X-ray, and Alpha Irradiations

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P2-38 Organic Matrix-Based Optically Stimulated Luminescence Detector for Beta irradiation

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P2-39 Matrix-Assisted Excitation of Rare-Earth Ions: Tellurite versus Silica Glass

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P2-40 Efficient growth of MoS₂ thin films via ultrashort-pulsed laser deposition

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P2-41 NIR Scintillation Properties of YbVO₄ single crystal

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