

10th INTERNATIONAL CONFERENCE ON OPTICAL, OPTOELECTRONIC AND PHOTONIC MATERIALS AND APPLICATIONS (ICOOPMA 2024)

PRELIMINARY PROGRAMME

SUNDAY, JUNE 23, 2024

15:00 - 20:00 **Registration**

19:00 - 19:20 **Opening Session**

Tomas Wagner

19:20 - 20:00 **Single crystal scintillators – R&D trends, achievements and bottlecks**

PT 01

M. Nikl

20:00 - 21:00 **Welcome Drink**

MONDAY, JUNE 24, 2024

8:00 - 12:00 **Registration**

chairperson: Safa Kasap

9:00 - 9:10

Opening

9:10 - 9:50
PT 02

Restorative engineering of bio-minerals using near-IR mode-locked and CW surgical laser methodologies for damaged hard-soft tissues and implants

S. K. Lognathan, E. Daskalakis, N. Iqbal, L. Yildizbakan, D. Abdul Aziz, E. Al-Shubhe, S. Strafford, G. Sharma, E. K.-Barimah, A. Anastasiou, E. M. Raif, P.V. Giannoudis, B. Natress, S. Pavitt, A. Nielson, A. Jha

9:50 - 10:20 Coffee Break

SESSION I

chairperson: Virginie Nazabal

10:20 - 10:50
IT 01

Plasmonic biosensors and their applications in biomedicine

J. Homola, T. Špringer, M. Bocková, J. Slabý

10:50 - 11:20
IT 02

White emitting devices spanning organics to inorganics to a single biomolecule

R. Sammynaiken, M. Reaney, P. Jadhav, N. Chen, R. Bauer, G. Chang, G. Belev, E. Amador, L. Ma, C. Gautam, W. Zhou, J. Liu, W. Chen

11:20 - 11:40

Surface functionalization of chalcogenide IR photonic sensor by means of polymer membrane devoted to water pollution

M. Vrážel, R. Kadar Ismail, R. Courson, M. Bouška, M. Baillieul, K. Boukerma, A. Hammouti, L. Bodiou, J. Charrier, K. Michel, S. Le Floch, W. Giraud, P. Němec, V. Nazabal

11:40 - 12:00

Synthetic approaches and their impact on structural and optical characteristics of neodymium-doped gadolinium compounds

M. Delaey, D. Poelman

12:00 - 12:20

Integration of rare-earth ions (RE³⁺) luminescence into additive manufactured micro polymers for sensing applications

R. Santos Baltieri, A. Reupert, D. Manzani, L. Wondraczek

12:20 - 13:40 Lunch

SESSION I

chairperson: Setsuhisa Tanabe

13:40 - 14:10
IT 03

Phosphor-in-Glass (PiG) composites for W-light and high energy radiation sensing

A. S. S. de Camargo, L. G. Merzìo, S. Chahal

14:10 - 14:40

Development of novel organic–inorganic hybrid scintillators

M. Koshimizu

14:40 - 15:10

Investigation of new scintillation materials for ionizing radiation detectors

T. Yanagida, D. Nakauchi, T. Kato, N. Kawaguchi

15:10 - 15:40

Optically stimulated luminescence materials for 2D/3D dosimetry in ion beams: what is needed?

E. G. Yukihara, J. B. Christensen, L. Bossin, M. L. Jensen

15:40 - 16:10

Using a photochromic passive dosimeter for detection of x-rays, ultraviolet and visible light

Z. Yang, P.F. Smet, D. Poelman

16:30 - 20:00

POSTER SESSION with Walking Dinner

TUESDAY, JUNE 25, 2024

chairperson: Animesh Jha

9:00 - 9:40	Visible trap in transparent ceramic persistent phosphor S. Tanabe, J. Ueda, J. Xu
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9:40 - 10:20 Coffee Break

SESSION I

chairperson: Jiří Orava

10:20 - 10:50	Reconfigurable freespace and integrated dispersion-engineered chalcogenide phase change metacoatings B. Gholipour, J. Perkins, A. Mandal, J. Davis, M. Zaini, A. S. Ansari, Y. Cui, V. Bhingardive, K. Kim, H. Cheng
10:50 - 11:20	New insights into the structure and properties of chalcogenide glasses via the multi-center hyperbonding concept T. H. Lee, S. R. Elliott
11:20 - 11:40	Optical properties of as-deposited, annealed and laser-treated Te-based phase change alloys J. Píkrý, J. Mistrik, M. Krbal
11:40 - 12:00	Photodarkening in some amorphous Ge-As-S thin films and possible influence of nanophase separation P. Kutálek, P. Knotek, E. Černošková, E. Samsonova, L. Tichý
12:00 - 12:20	Direct electron beam patterning of selenide-based chalcogenide thin films J. Smolík, P. Kutálek, P. Knotek, E. Černošková, R. Todorov, E. Samsonova

SESSION II

chairperson: Jai Singh

10:20 - 10:50	Synergizing stability and precision: Harnessing diblock copolymer reverse micelle templating for tailored perovskite core-shell nanoparticles A. Turak
10:50 - 11:20	Nanoscale advanced materials engineering for photonic and quantum technologies R. J. Curry, M. Adshead, M. Coke, G. Aresta, A. Bellew, M. Lagator, K. Li, Y. Cui, R. Cai, A. Almutawa, S. J. Haigh, K. L. Moore, N. Lockyer, C. M. Gourlay, R. Acharya, B. Achinug, A. B. Gholizadeh, J. Jacobs, J. L. Boland, D. N. Jamieson
11:20 - 11:40	Photoluminescence in Er³⁺-doped LaYO₃ and LaYbO₃ perovskites prepared by combustion synthesis L. Strizik, V. Manak, T. Mansfeldova, J. Susky, L. Benes, P. Rysanek, S. Slang, T. Wagner, J. Orava
11:40 - 12:00	Deciphering the role of sensitizer ions on PL properties of Eu³⁺ activated NaLa(MoO₄)₂ phosphors for lighting and thermometry application S. Tomar, V. Chauhan, P.C. Pandey, C. Shivakumara
12:00 - 12:20	Inter-lanthanide LaYYbO₃ perovskites doped with Er³⁺ J. Suský, S. Šlang, L. Beneš, T. Wágner, L. Strižík

12:20 - 13:40 Lunch

SESSION I

chairperson: Andrea de Camargo

13:40 - 14:10	Modulation spectroscopies for the characterization of the electronic transport properties of operating organic photovoltaics H. Naito
14:10 - 14:40	Modelling recombination junctions for tandem solar cells and direct Z-scheme photocatalysis J. Lauwaert
14:40 - 15:10	Leveraging laser-assisted techniques for high-quality graphene and graphene-based nanohybrids in energy storage applications S. N. Yannopoulos, M. Athanasiou, K. Bhorkar, N. Samartzis
15:10 - 15:30	Pyrochlores as low-phonon energy phosphors for short- and mid- infrared J. Mrazek, V. Nečina, W. Pabst, I. Bartoň, P. Vařák, J. Proboštová
15:30 - 15:50	Photoluminescence properties of YPO₄:Pr³⁺ nanoparticles in polystyrene nanocomposite films B. Kahouadji, M. Lamine, O. Salim

SESSION II

chairperson: Richard Curry

13:40 - 14:10	Controlling light-matter interactions and surface phenomena with nanoarrays R. Biswas, M.-G. Ji, A. Peer, J. Kim
14:10 - 14:40	Interfacing nanophotonics with optical fibers for versatile beam control using 3D nanoprinting M. A. Schmidt, M. Plidschun, J. Kim, M. Zeisberger, O. Yermakov, Y. Kivshar, A. Bogdanov, H. Ren, S. A. Maier
14:40 - 15:10	Lasing performance studies in semiconductor micro-nano structures L. Zhang, B. Zhou, L. Chen

15:10 - 15:30	Stable and ultrafast blue cavity-enhanced superfluorescence in mixed halide perovskite quantum dot superlattices L. Chen, X. Li, L. Zhang
15:30 - 15:50	Persistent luminescence and reversible photochromism from highly crystallized glass-ceramics containing garnet crystals for multi-mode optical sensing and information storage G. Galleani, J. Cao, F. Scheffler, R. Sajzew, J. J. Velazquez, D. Galusek, L. Wondraczek

15:50 - 16:30 Coffee Break

SESSION I

chairperson: Sidney Ribeiro

16:30 - 17:00 IT 18	Mechanoluminescence of an oxynitride glass-ceramic T. Rouxel, A. Duval, X. Rocquefelte, P. Houizot
17:00 - 17:30 IT 19	Defects, dopant energy levels and lone pairs in nitride phosphors A. Moewes
17:30 - 17:50	Synthesis, structure, and phase transition properties of VO₂ microrods/belts Ch. Zhang, O. Gunes, C. Koughia, S. J. Wen, Q. Yang, S. Kasap
17:50 - 18:10	Rapid and precise large area rare-earth ions mapping in transparent materials on the example of (Ce³⁺, Gd³⁺) in YAG and LuAG single crystals J. Hrabovský, M. Kučera ¹ , L. Paloušová, J. Kubát, L. Bi, M. Veis
18:10 - 18:30	Controlling the micrometric luminescence pattern of a borogermanate glass containing Tb³⁺ by thermal poling J. R. Orives, L. M. S. Marcondes, T. Cardinal, M. Dussauze, M. Nalin

WEDNESDAY, JUNE 26, 2024

chairperson: Markus Schmidt

9:00 - 9:40 PT 04	Intersystem and upconversion crossings and thermally activated delayed fluorescence (TADF) in organic light emitting diodes (OLEDs) J. Singh
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9:40 - 10:20 Coffee Break

SESSION I

chairperson: Dirk Poelman

10:20 - 10:50 IT 20	Highly coherent mid-infrared supercontinuum generation by tellurite and chalcogenide microstructured optical fibers Y. Ohishi, T. Suzuki
10:50 - 11:20 IT 21	Chalcogenide optical fibers with various structuration's for mid-IR supercontinuum generation F. Smektala, E. Serrano, D. Bailleul, A. Lemièrre, F. Désévéday, B. Kibler
11:20 - 11:40	RE-doped zinc-silicate glass-ceramics with enhanced photoluminescence and radioluminescence properties (RE = Er, Tm, Ho) P. Vařák, J. Volf, V. Jarý, J. Mrázek, P. Nekvindová
11:40 - 12:00	3D printing of rigid photonic crystal-based materials P. Pradal, E. Amstad
12:00 - 12:20	

SESSION II

chairperson: Laurent Calvez

10:20 - 10:50 IT 22	Preparation of rare earth-based aluminum and gallium garnets using glasses as reaction media M. Nalin
10:50 - 11:20 IT 23	Multicomponent photonic glass and glass-ceramics S. Zhou
11:20 - 11:40	Development of NIR-chargeable active phosphor embedded in glass E. Santos Magalhães, S. Ghanavati, M. Lastusaari, J. Massera, L. Petit
11:40 - 12:00	Transparent luminescent nano-glass composites for photonics. J. Ren, C. Wang, J. Zhang
12:00 - 12:20	Enhancing the quality of nanosilica derived from rice husk: Investigating the effects of rice husk variety and Eu³⁺ ion doping on the luminescent properties of the derived silica nanophosphor C. Mbakaan, I. Ahemen, F. B. Dejene, A. D. Onojah, S. J. Motloug, R. Ocaya, A. Reyes-Rojas, A.N. Amah

12:20 - 13:40 Lunch

SESSION I*chairperson: Spyros Yannopoulos*

13:40 - 14:10 IT 24	Local structural changes by silver photodiffusion into amorphous germanium sulphide <u>Y. Sakaguchi</u> , Y. Baba, Y. Okamoto, H. Abe, Y. Niwa
14:10 - 14:40 IT 25	Electro-optically active nanoparticles in glass for infrared modulators <u>M.H. Mika</u> , K. Jilkova
14:40 - 15:10 IT 26	Ionic exchange in chalcogenide glasses: A way to obtain IR GRIN lenses C. Fourmentin, X.-H. Zhang, E. Lavanant, T. Pain, M. Rozé, Y. Guimond, F. Gouttefangeas, <u>L. Calvez</u>
15:10 - 15:30	Luminescence of silver centers in gallium-phospho-oxyfluoride glasses doped with rare earth <u>V. D. Jesus</u> , G. Galeani, A. S. S. de Camargo
15:30 - 15:50	Identification of defects and impurities in hydrothermally grown ZnO single crystals by ESR <u>T. Abe</u> , H. Osada, E. Wiens, G. Belev, R. Sammynaiken, S. O. Kasap

SESSION II*chairperson: Teahoon Lee*

13:40 - 14:10 IT 27	Clean preparation and clean functionalization of 2D materials <u>M. Kalbac</u>
14:10 - 14:40 IT 28	Active stress management for alkali-containing silicate glasses via a new ion exchange technique <u>Y. G. Choi</u> , J. I. Lee, S. Y. Ko, J. H. Lee, S. W. Park
14:40 - 15:10 IT 29	Nanostructured materials: Sculpting light-matter interactions for a manifold of applications <u>N.P. Kherani</u>
15:10 - 15:30	Solution processed chalcogenide glass thin films <u>K. Palka</u> , J. Jemelka, S. Slang, M. Kurka, J. Jancalek, M. Vlcek
15:30 - 15:50	Multi-layered thin films of $Ge_{20}Sb_5S_{75}$ and $Ge_{20}Sb_5Se_{75}$ chalcogenide glasses prepared from glass solutions <u>J. Jemelka</u> , K. Palka, P. Janicek, S. Slang, J. Jancalek, M. Kurka, M. Vlcek

15:50 - 16:30 Coffee Break

SESSION I*chairperson: Marcelo Nalin*

16:30 - 17:00 IT 30	Demonstration of optical refrigeration in phase separated yttrium aluminosilicate glasses <u>T. Meyneng</u> , J. Thomas, N. Grégoire, W. Leelapornpisit, J. Valdez, R. Kashyap, Y. Messaddeq
17:00 - 17:30 IT 31	Vibrational spectroscopic strategies for improved analyte quantification W. Ahmed, E. L. Osborne, A. V. Veluthandath, <u>G. S. Murugan</u>
17:30 - 17:50	Effects of the thermal treatment on structure and luminescence properties of erbium-doped aluminophosphosilicate glass obtained by sol-gel method B. H. Costa, G. T. Tayama, V. A. G. Rivera, Y. Messaddeq, <u>S. H. Santagneli</u>
17:50 - 18:10	Design and analysis of quantum dots infrared photodetector based on interdigitated metal structure <u>M. Khadraoui</u> , D. Benyahia, D. Teguig

THURSDAY, JUNE 27, 2024**SESSION I***chairperson: Younes Messaddeq*

9:00 - 9:30 IT 32	Photonic nanostructured biopolymers <u>S. J. L. Ribeiro</u>
9:30 - 10:00 IT 33	Chalcogenide-based microsensor for water pollutants monitoring <u>V. Nazabal</u> , R. Chahal, S. Meziani, A. Hammouti, M. Vrazel, R. Kadar Ismail, A. Benardais, C. Boussard-Pledel, L. Bodiou, J. Lemaitre, R. Courson, K. Boukerma, O. Fauvarque, P. Němec, K. Michel, W. Giraud, S. Le Floch, P. Michel, G. Maison, M. Carras, K. Milczarek, W. Kołkowski, J. Charrier

10:00 - 10:40 Coffee Break

SESSION I*chairperson: Frédéric Smektala*

10:40 - 11:10 IT 34	Optical fibers doped with nanoparticles for photonic applications <u>Y. Messaddeq</u>
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11:10 - 11:40 IT 35	Harnessing the unique transport properties of InAs nanowires for single molecule level sensing H. E. Ruda, A. Austin, D. Lynall, S. Nair, I. Savelyev, M. Blumin, S. Wang
11:40 - 12:00	Noninvasive glucose monitoring using dual quantum cascade lasers and photoacoustic spectroscopy A. Aloraynan, D. Ban
12:00 - 12:20	Reversible photoconductivity in hybrid photodetectors based on pure and plasmon-activated 2D Graphene and MoS₂ D. S. Tomar, S. Chattopadhyay

12:20 - 13:40	Lunch
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17:00 - 18:30	EXCURSION
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19:00 - 22:00	CONFERENCE DINNER
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FRIDAY, JUNE 28, 2024

SESSION I

chairperson: Tanguy Rouxel

9:00 - 9:30 IT 36	Transition metal-dichalcogenide/Au nanoparticle (AuNP) composite synthesis via laser irradiation for Surface Enhanced Raman Spectroscopy biosensors M. Yavuz, I. Belyakov, A. Xu, L. Zaidan, M. Irannejad, X. Medvedeva, A. Klinkova, B. Bastug Azer, A. Gulsaran, D. Ozyigit, J. Pennings, R. Karimi, J. Sanderson
9:30 - 9:50	Enhancement of X-ray sensitivity in a-Se and Perovskite detectors using Au nanoparticles K. O. Ramaswami, S. O. Kasap, G. Belev, R. J. Curry

9:50 - 10:30	Coffee Break
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SESSION I

chairperson: Mustafa Yavuz

10:30 - 10:50	Praseodymium-doped Ge₂₀In₅Sb₁₀Se₆₅ films based on argon plasma co-sputtering for infrared-luminescent integrated photonic circuits T. Ghanawi, F. Starecki, V. Nazabal
10:50 - 11:10	Rare earth-doped chalcogenides integrated waveguides for mid-IR emission L. Bodiou, A. Hammouti, S. Meziani, J. Lemaitre, Y. Dumeige, J. Charrier, T. Ghanawi, F. Starecki, A. Bénardais, P. Nemeč, V. Nazabal
11:10 - 11:30	Tuning of optical properties of chalcogenide thin films by rapid thermal annealing T. Halenkovič, J. Gutwith, S. Šlang, R. Chahal, A. Hammouti, J. Charrier, P. Nemeč, V. Nazabal
11:30 - 11:50	BK7 glass surface restructuring by using femtosecond laser-micro holes fabrication A. Alsubaihi, A. Alsaleh, M. Al-Gawati, M. Albakri
11:50 - 12:20	Closing Ceremony Tomas Wagner

12:20 - 13:40	Lunch
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16:30 - 20:00	POSTER SESSION
	Study on 3D blue light perovskite LED with mixed halogen <u>Y. Wang</u>
	Nanoparticle-doping method for specialty optical fibers <u>M. Kamrádek, I. Kašík, J. Aubrecht, P. Vařák, O. Podrazký, I. Bartoň, P. Peterka, P. Honzátko</u>
	Solid - state synthesis approach and optical study of new red emitting phosphors $\text{Li}_{.3}\text{BaSrxCa}_{(1-x)}\text{Eu}_{2.7}\text{Gd}_{0.3}(\text{MoO}_4)_8$ for white LEDs <u>A. P. Sharma , B. S. Mund, C. S. Vaidyanathan</u>
	New avenues for upconversion-based 3D volumetric display glass through laser modulation <u>Y. Wei, T. de Prinse, X. Pan, E. Schartner, N. Tansu, R. Elgammal, M. Kappers, H. Ebdorff-Heidepriem</u>
	Transparent chalcogenide quantum dots/polymer hybrid monolith for the detection of gamma irradiation <u>L. Loghina, J. Houdek, S. Slang, S. Shimuk, M. Vlcek</u>
	Enhanced amplified spontaneous emission from all-inorganic perovskite thin films by composition engineering <u>Y. Mao, Ch. Liang, G. Wang, Y. Wang, Z. Zhang, B. Wang, Z. Wen, Z. Mu, G. Sun, S. Chen, G. Xing</u>
	Thermally stimulated luminescence properties of BCNO phosphors after X-ray irradiation <u>M. Koshimizu, H. Taki, Y. Fujimoto, K. Asai</u>
	Scintillation originating from triplet excited states in plastic scintillators containing fluorescent molecules exhibiting thermally activated delayed fluorescence (TADF) <u>M. Koshimizu, A. Sato, Y. Kitamoto, A. Watanabe, K. Watanabe, T. Yanagida, T. Hattori, S. Oi, Y. Fujimoto, K. Asai</u>
	Radiophotoluminescence materials and applications in radiation measurements <u>G. Okada</u>
	Radiophotoluminescence properties of Pb-doped $\text{Ba}_2\text{O}_3\text{-Al}_2\text{O}_3\text{-Li}_2\text{O}$ glasses <u>Y. Udo, G. Okada, S. O. Kasap, H. Nanto</u>
	Synthesis and evaluation of optical, photoluminescence, and scintillation properties of rare-earth element doped $\text{HfO}_2\text{-Al}_2\text{O}_3\text{-SiO}_2$ glass phosphor <u>D. Shiratori, A. Nishikawa, D. Nakauchi, Y. Fukuchi, T. Yanagida</u>
	Optical and Radiation-induced luminescence properties of Eu-doped CaS translucent ceramics <u>H. Kimura, T. Fujiwara, H. Kato, T. Kato, T. Kunikata, N. Kawaguchi, T. Yanagida</u>
	Amorphous Er^{3+} doped tellurite thin films prepared by sputtering <u>P. Ramanan, J. Gutwirth, A. Viswanathan, T. Ghanawi, F. Starecki, V. Nazabal, M. Roussey, P. Němec, L. Petit</u>
	Scintillating glass-ceramic in $\text{ZnO-Al}_2\text{O}_3\text{-SiO}_2$ system <u>J. Volf, P. Vařák, V. Jarý, J. Mrázek, P. Nekvindová</u>
	Silica glass optical fibers for a detection of high-energy radiation <u>I. Bartoň, J. Proboštová, V. Jarý, V. Babin, A. Beitlerová, P. Nekvindová, P. Vařák, J. Mrázek</u>
	Visible and infrared up-conversion in Er doped fluorochlorozirconate glass under 1550 nm and 980 nm excitations <u>C. Koughia, S.O. Kasap</u>
	Structuring of Ge-based amorphous chalcogenide thin films by hot embossing <u>M. Kurka, J. Bartak, S. Slang, J. Jancalek, K. Palka, M. Vlcek</u>
	Adjusting of optical properties of solution-processed $\text{Ge}_{20}\text{Sb}_5\text{S}_{75}$ thin films by modification of source glass solution <u>J. Jancalek, S. Slang, B.N. Shedden, P.D. Simpson, J. Houdek, M. Kurka, K. Palka, M. Vlcek</u>
	Excitation intensity dependence of photoluminescence in mid-infrared region for lattice-matched InAs/GaAsSb superlattice grown by MOVPE method <u>K. Maeda, T. Fujisawa, M. Arai</u>
	Synthesis and characterization of Hg_2Cl_2 particles as filler for IR transparent optical adhesives <u>J. Houdek, L. Loghina1, S. Slang, J. Chmelik, N. Aloui, J. Zelenka, M. Vlcek</u>
	Photoluminescence study on silicon-vacancy centers in diamond thin film and nanoparticles <u>K. Aubrechtová Dragounová, Š. Potocký, A. Kromka, Z. Doležal, T. Meřová</u>
	CW laser-induced surface elements on Ge-Sb-Se chalcogenide glasses <u>E. Samsonova, P. Kutálek, E. Černošková, J. Smolík, P. Knotek, J. Schwarz</u>
	Developments of As_2S_3 and Au nanoparticles-filled porous glass composite for photonics <u>S. Kokenyesi, J.A. Burunkova, A. Csík, B. Dönczö, M. Szarka</u>
	Design and development of holographic auto-tracking laser interferometer measurement system <u>F. H. Hsu, Y. T. Chen, H. Y. Chen, K. Z. Lin</u>
	Generating self-trapped beams of light with a digital projector <u>D. Srdic, K. Stegman, F. Mahmood, K. Saravanamuttu</u>
	Fabrication of gold nanoparticles in various Si-glass systems by ADL technique - comparison with conventional melting approach <u>J. Baborák, P. Vařák, E. Véron, A. Zandonà, M. Allix, P. Nekvindová</u>

	<p>Electrical properties of PbO-Bi₂O₃-Ga₂O₃ glass with Ag nanoparticles</p> <p><u>K. Jílková</u>, P. Kostka, O. Bošák, M. Kubliha, A. Michalcová, M. Kudrnová, M. Havlík Míka</p>
	<p>HIP Parameters for high quality MS-ZnS</p> <p><u>S.B. Kim</u>, S.G. Woo, D. Kim, Y.D. Chung, W.S. Han</p>
	<p>Precise control of perovskite crystallization for highly efficient light-emitting diodes</p> <p><u>P. Pang</u>, J. Chen, G. Xing</p>
	<p>Lanthanide-decorated QD as promising light-emitting materials</p> <p>C. Nuñez, M. Esteves, N. Veiga, <u>C. Mendoza</u>, J. Torres</p>
	<p>Cu₂Te/CoTe nanoparticles with tuneable bandgaps: Implications for photovoltaic and optoelectronic devices</p> <p><u>S. Supriya</u>, S. Das, S. Senapati, R. Naik</p>
	<p>Towards narrow-linewidth hybrid-integrated laser diode using Bragg grating for the blue/near-UV range</p> <p><u>R. Kervazo</u>, A. Congar, G. Perin, L. Labonde, R. Butté, N. Grandjean, J-C Simon, M. Thual, C. Levallois, J. Le Pouliquen, L. Bodiou, S. Trebaol, J. Charrier</p>
	<p>Optimization of etching parameters of chalcogenide layers for photonic integrated circuits for Near and Mid-Infrared applications</p> <p>A. Hammouti, S. Meziani, <u>L. Bodiou</u>, N. Lorrain, P. Pirastesh, J. Lemaitre, Y. Ghandaoui, L. Deniel, A. Bénardais, R. Chahal, V. Nazabal, J. Charrier</p>
	<p>SnO₂/MoS₂ coated evanescent based fiber optic ammonia sensor</p> <p>Z. C. Alex, <u>P. Manivannan</u></p>
	<p>Enhanced detection of acetone using evanescent wave-based fiber optic sensors coated with metal organic framework (MOF-5)</p> <p><u>V.K. Harini</u>, A.Prasanth, Z. C. Alex</p>
	<p>New low temperature synthetic method for preparation of tellurides nanoparticles</p> <p><u>M. Bouška</u>, Y. Milasheuskaya, R. Jambor, P. Němec</p>