

Monday, 18 July 17:15 – 19:15

1. Tunable luminescence from silico-carnotite type double silicates doped with Tb³⁺ and Eu³⁺
Irene Carrasco, Fabio Piccinelli, Marco Bettinelli
2. Divalent bismuth doped deep red scintillating materials for X-ray detection
Liyi Li, Atul Sontakke, Mingying Peng, Bruno Viana
3. Photoluminescence properties and energy transfer via multi luminescent centers of Sr₂MgAl₂₂O₃₆:Ce³⁺ phosphor for near UV-pumped white LEDs
Haiming Zhang, Bingfu Lei, Haoran Zhang, Yingliang Liu
4. Spectroscopic properties of Ce³⁺ in the cuspidine-type oxide nitride compound Y₄Si_{2-x}Al_xO_{7+x}N_{2-x}
Agata Lazarowska, Sebastian Mahlik, Marek Grinberg, Ru-Shi Liu
5. Photoluminescence evolution with illumination time in CH₃NH₃PbI_{3-x}Cl_x thin films and MAPbI₃ crystals
Carmen Coya, Esteban Climent-Pascual, Emilio Juárez-Pérez, Alicia de Andres, Angel Luis Álvarez, Carmen Munuera
6. New phosphor MgCa₃Si₂O₈: Eu²⁺, energy level location of Ln³⁺ and Ln²⁺ in MgCa₃Si₂O₈
Dagmara Stefanska, Przemyslaw Deren
7. Cr³⁺-Nd³⁺ energy transfer in novel whitlockite phosphor Ca₉Cr(PO₄)₇: Nd³⁺ ions
Adam Watras, Natalia Miniajluk, Przemyslaw Dereń
8. Synthesis and spectroscopic characterization of Ca₉Al_{1-x}Cr_x(PO₄)₇ (x = 0, 1-1) powders
Natalia Miniajluk, Adam Watras, Przemyslaw Dereń
9. Meta-stability of silicate phosphors
Byungjoo Jeon, Wunho Lee, Taewook Kang, Gotaek Kim, Youngmin Cho, Youngwoo Jeong, Jaehyoung Park, Daehan Kim, Hyojun Kim, Kwangwon Park, Kim Jongsu, Heelack Choi, Taehoon Kim
10. Single crystal phosphors for high-power laser lighting
Taewook Kang, Gotaek Kim, Wunho Lee, Byungjoo Jeon, Hyojun Kim, Kwangwon Park, Kim Jongsu, Heelack Choi, Taehoon Kim
11. Strong blue absorption in heavy Mn-doped phosphors
Kwangwon Park, Jaehyoung Park, Hyojun Kim, Jongsu Kim, Byungjoo Jeon, Taewook Kang, Wunho Lee, Heelack Choi, Taehoon Kim
12. Temperature-dependent photoluminescence lifetimes of Cu-Doped Zn-In-S quantum dots
Jialong Zhao, Xi Yuan and Haibo Li
13. High density excitation with alpha particles
Weronika Wolszczak, Pieter Dorenbos
14. The vacuum referred binding energies of Bi³⁺ in wide band gap compounds
Roy Awater, Pieter Dorenbos
15. Luminescence of defective monoclinic zirconia prepared in a solar furnace
Ilmo Sildos, Laurits Puust, Claude Monty, Valter Kiisk
16. Luminescence investigations of ZnGa₂O₄: Mn²⁺ and ZnGa₂O₄: Mn²⁺, Eu³⁺ compounds with spinel structure
Oleg Kravets, Andriy Luchechko, Syvorotka Ihor
17. Dynamics of electron photoexcited states on the TiO₂ – xanthene dyes interface

- Niyazbek Ibrayev, Dmitriy Afanasyev, Evgeniya Seliverstova*
18. Luminescent properties of Eu³⁺ doped SrKB₅O₉
Bartosz Bondzior, Przemysław Dereń
19. Optical spectroscopy and EPR studies of Mn²⁺ ions in YAlO₃
Yaroslav Zhydachevskii, Hanna Przybylińska, Agnieszka Wołoś, Michal Glowacki, Marek Berkowski, Andrzej Suchocki
20. Optical and electron paramagnetic resonance spectroscopy of Yb³⁺:Y₂SiO₅
Sacha Welinski, Alban Ferrier, Mikael Afzelius, Philippe Goldner
21. Mechanism of luminescence enhancement of SrSi₂O₂N₂:Eu phosphor via manganese addition
Justyna Barzowska, Tadeusz Lesniewski, Yaroslav Zhydachevskyy, Karol Szczodrowski, Daniel Michalik, Hanka Przybylińska, Małgorzata Sopicka-Lizer, Marek Grinberg, Andrzej Suchocki
22. Eu(II) luminescence properties in hydrides and hydride fluorides
Nathalie Kunkel, Andries Meijerink, Holger Kohlmann
23. The luminescence of electronic excitations in alkali halide crystals at lattice symmetry lowering
Kuanyshbek Shunkeyev, Saginbek Shunkeyev, Alexandra Barmina, Lyudmila Myasnikova, Nurgul Zhanturina, Daulet Sergeev, Shynar Sagymbaeva, Zukhra Aimaganbetova
24. Morphology control and upconversion luminescence properties of monoclinic Y₂WO₆:Yb³⁺/Er³⁺
Cuili Chen, Peiqing Cai, Sun Il Kim, Hyo Jin Seo
25. Combustion synthesis and luminescence properties of Sr₃La₂(BO₃)₄:Eu³⁺ phosphors
Peiqing Ca, Cuili Chen, Sun Il Kim, Hyo Jin Seo
26. Spectroscopic study of materials doped rare-earth ions
Adel Bitam, Saidi Khiari, Madjid Diaf
27. Confined excitons in CdF₂-CaF₂ superlattices
Konstantin V. Ivanovskikh, Rosa B. Hughes Currie, Michael F. Reid, Jon-Paul R. Wells, Nikolay S. Sokolov, Roger J. Reeves
28. High-pressure photoluminescence spectroscopy of codoped LiNbO₃:Cr³⁺; W⁴⁺ crystals.
Marco Sánchez-Alejo, Fernando Rodríguez, Antonio Barreda-Argüeso, Ignacio Camarillo, Cristina Flores, Héctor Murrieta, José Manuel Hernández, Francisco Jaque, Enrique Camarillo
29. Luminescence properties of different Eu sites in Ba₂K(PO₃)₅ doped with Eu²⁺ and Eu³⁺
Anna Baran, Sebastian Mahlik, Marek Grinberg, Adam Watras, Robert Pązik, Przemysław Dereń
30. Luminescence properties of silicate apatite phosphors M₂La₈Si₆O₂₆:Eu (M = Mg, Ca, Sr)
Nikolai Khaidukov, Marco Kirm, Eduard Feldbach, Henri Mägi, Vitali Nagirnyi, Eliko Töldsepp, Sebastian Vielhauer, Thomas Jüstel, Thomas Jansen, Vladimir Makhov
31. Optically properties of K₂SO₄ doped by transition metal ions
Ainura Tussupbekova, Temirgaly Koketai, Askhat Baltabekov, Elizaveta Turmukhambetova, Elmira Mussenova
32. Energy transfer and spectroscopic properties of UV active media Ce³⁺:LiCa_{1-x}Sr_xAlF₆

- Alexey Shavelev, Alexey Nizamutdinov, Mikhail Marisov, Vadim Semashko*
33. Theoretical study on photoinduced nucleation dynamics by injection of THz optical pulses
Kunio Ishida, Keiichiro Nasu
34. Ultra-short pulse lasing from $\text{LiLu}_{0.7}\text{Y}_{0.3}\text{F}_4:\text{Ce}^{3+}$
Alexey Nizamutdinov, Ilnur Farukhshin, Vadim Semashko, Stella Korableva, Mikhail Marisov
35. YAG: Ce^{3+} nanoceramics: spectroscopy, dynamics and TSL
Q. Shi, A. Ishchenko, V. Osipov, V. Shitov, R. Maksimov, K. Lukyashin, V. Platonov, M. Sarychev, R. Abashev, B. Shulgin, A. Belsky, N. Fedorov, P. Martin, K. Ivanovskikh
36. Radiative and nonradiative recombination in Si-doped InN thin films
Der-Jun Jang, Antaryami Mohanta, C.-F. Tseng, Li-Wei Tu
37. Dynamics of changes in optical absorption induced by exposition to short- and long-wavelength radiation in the BTO:Al crystal
Stanislav Shandarov, Valeriya Dyu, Marina Kisteneva, Elena Khudyakova, Yury Kargin
38. Basic principles of ion beam induced luminescence and its application to the study of electronic excitation in insulators
Diana Bachiller-Perea, David Jiménez-Rey, Angel Muñoz-Martín, Fernando Agulló-López
39. Theoretical modeling of transition metals tetroxoanions adsorption on N(B)-doped single-walled carbon nanotubes and graphene
Yuriy Hizhnyi, Borysiuk Viktor, Sergii Nadiilko, Andrii Shyichuk
40. Luminescence and upconversion spectroscopy of $\text{Er}^{3+}/\text{Yb}^{3+}$ -doped $\text{Y}_3\text{Ga}_5\text{O}_{12}$ nano-garnets for optical nano-devices
Virginia Monteseuro, Vemula Venkatramu, Sergio Fabian León-Luis, Ulises Rodríguez-Mendoza, C. K. Jayasankar, Víctor Lavín
41. Blue upconversion emission of Cu^{2+} ions sensitized by Yb^{3+} -trimers in CaF_2
Qin Weiping, Aidilibike Tuerxun
42. Energy migration in doped crystals
Freddy Rabouw, Andries Meijerink
43. Luminescent properties of Ce^{3+} -activated germanate scintillating glasses
Shan Qian, Lihui Huang, Kangying Shu, Shiqing Xu
44. The influence of point defects on amplification and spectral characteristics of InGaAs-based laser diode arrays
Katsiaryna Platnitskaya, Volha Kabanava, Dzmitry Kabanau, Yahor Lebiadok
45. The excited states of gallium and nitrogen vacancies in the GaN/AlN heterointerface and its relaxation
Yahor Lebiadok, Dzmitry Kabanau, Katsiaryna Platnitskaya
46. Photonic effects on magnetic dipole transition probabilities
Z. J. Wang, A. Meijerink
47. Carbon segregation phenomena on $\text{Fe}_{0.85}\text{Al}_{0.15}(110)$: a STM, LEED and XPS study
Z. Dai, P. Borghetti, G. Gabailh, J. Jupille, R. Laszari
48. Quantum wells based structures tested by polarized photoreflectance at room temperature
J. V. González-Fernández, J. Ortega-Gallegos, R. Díaz de León-Zapata, J.-P. Galaup, A. Lastras-Martínez and R. E. Balderas-Navarro
49. Narrowing of excitation band in nanophosphors

- Hyojun Kim, Daehan Kim, Kwangwon Park, Jongsu Kim, Wunho Lee, Taewook Kang, Byungjoo Jeon, Heelack Choi*
50. Towards cavity-enhanced single rare earth ion detection
Bernardo Casabone, Franziska Beck, Thomas Hümmer, Alban Ferrier, Philippe Goldner, Theodor Hänsch, Hugues de Riedmatten, David Hunger
 51. Towards bulk crystal coherence times in $\text{Eu}^{3+}:\text{Y}_2\text{O}_3$ nanocrystals
John Bartholomew, Karmel de Oliveira Lima, Alban Ferrier, Jenny Karlsson, Philippe Goldner
 52. Persistent optical hole-burning spectroscopy of nano-confined dye molecules in liquid at room temperature: optical memory in liquid?
Hiroshi Murakami
 53. Fluorescence microscopy of single organo-metal halide perovskite nanowires: effect of crystal-phase transition
Alexander Dobrovolsky, Eva Unger, Arkady Yartsev, Ivan Scheblykin
 54. Optical properties of quantum dots coupled to cone-shaped nanoantennas
Kerstin Scherzinger K. Scherzinger, R. Jäger, A. Bräuer, S. Jäger, J. Fulmes, S. zur Oven Krockhaus, D. A. Gollmer, D. P. Kern, M. Fleischer and A. J. Meixner
 55. Polarized photoluminescence of carbon dots
Dmitrii Nelson, Anatolii Starukhin, Daniil Eurov, Dmitrii Kurdyukov, Ekaterina Stovpiaga, Valerii Golubev
 56. Investigation of highly efficient energy transfer in porphyrin molecules/carbon nanotubes nanoassemblies
G. Delport, F. Violla, S. Campidelli, C. Voisin and J. S. Lauret
 57. Optical properties of graphene nanoribbons
Géraud Delport, Shen Zhao, Loïc Rondin, Akimitsu Narita, Yunbin Hu, Xinlinag Feng, Klaus Müllen, Stéphane Campidelli, Jean-Sébastien Lauret
 58. Lanthanide-ion-doped NaYF_4 upconversion nanophosphors: Optical spectroscopy of single particles
Yuri Vainer, Sergei Alyatkin, Andrei Nechaev, Evgeniy Khaydukov
 59. Influence of plasmon silver films on photoinduced electronic processes in polymeric films of poly (3-hexylthiophene)
Dmitriy Afanasyev, Aslbek Zeinidenov, Niazbek Ibrayev
 60. Anomalous exciton diffusion in disordered wire-like materials
Valentina Giorgis, Andrey Malyshev, Victor Malyshev
 61. Photodynamic antimicrobial chemotherapy using zinc phthalocyanines in the treatment of bacterial infection
Zhuo Chen, Linsen Li, Yaxin Zhang, Jincan Chen, Ping Hu, Mingdong Huang
 62. Thermoelectric properties of disordered molecular wires with electron-vibron interaction
Elena Diaz, Francisco Dominguez-Adame, Rudolf Roemer
 63. Mechanisms of protoporphyrin IX delayed fluorescence
Ivo Vinklársek, Marek Scholz, Roman Dědic, Jan Hála
 64. Study of the thermal stability of the green fluorescent protein in the range 20-100°C
T. P. J. Han, L. M. Maestro, M. I. Marques, F. Jaque
 65. Dephasing mechanisms in transparent ceramics with narrow optical linewidths
Nathalie Kunkel, John Bartholomew, Alban Ferrier, Akio Ikesue, Philippe Goldner

66. An infrared pump-probe measurement of the 6H7/2 lifetime of Sm³⁺ in LiYF₄
Jon-Paul Wells, Sebastian Horvath, Alexander van der Meer, Michael Reid
67. Time evolution of softening of coherent phonon in antimony
Sho Nakayama, Masato Maruyama, Hideaki Kumagai, Tomobumi Mishina
68. Robust photon-echo generation in quantum dots using a pair of chirp pulses
Yoshitaka Sato, Naoto Aonuma, Kouichi Akahane, Ishi-Hayase Junko
69. Complex quantum beats of excitons in quantum dots observed using three-pulse photon echo
Arai Yuto, Kouichi Akahane, Kitazawa Sayaka, Ishi-Hayase Junko
70. Appearance of coherent LO phonons during the decay of LO-phonon–plasmon coupled mode in an undoped GaAs/n-type GaAs epitaxial structure
Takahiro Sumioka, Hideo Takeuchi, Masaaki Nakayama
71. Compact ultrafast X-ray and gamma-ray source driven by intense femtosecond laser pulses
Ruxin Li, Wentao Wang, Jiansheng Liu, Zhizhan Xu
72. Role of dynamical symmetry in an effective time-independent Hamiltonian for a laser-driven system
Jun-Ichi Inoue

Tuesday, 19 July 18:15 – 20:15

1. Pulse photoconductivity and light-induced absorption in undoped photorefractive Bi₁₂SiO₂₀ and Bi₁₂TiO₂₀ crystals
Tatiana Kornienko, Marina Kisteneva, Stanislav Shandarov, Alexei Tolstik
2. Spectroscopic properties of Eu³⁺:GdBO₃ nanopowders obtained by the sol-gel method
Mourad Seraiche, Guerbous Lakhdar, Kechouane Mohamed, Audrey Potdevin, Geneviève Chadeyron, Rachid Mahiou
3. Energy relaxation processes in Zn_xMg_{1-x}WO₄ mixed crystals
Nataliya Krutyak, Irina Kamenskikh, S. Ivanov, Dmitry Spassky, Vitaly Nagirnyi
4. Spectroscopy of Er³⁺ ions in Li₅La₃Nb₂O₁₂ garnets.
A. Egaña, M. Tardío, C. de la Torre Gamarra, A. Várez, E. Cantelar, F. Cussó, V. Lavín and J. E. Muñoz Santiuste
5. Photoluminescence properties of nanoporous anodic alumina alloyed with manganese ions
I. V. Gasenkova, N. I. Mukhurov, S. P. Zhvavyi, E. E. Kolesnik, A. P. Stupak
6. Influence of crystal field on optical properties of KNaSiF₆:Mn⁴⁺ phosphor at ambient and high hydrostatic pressure
Tadeusz Lesniewski, Sebastian Mahlik, Marek Grinberg, Ye Jin, Ru-Shi Liu
7. Influence of the compensation defects on the luminescence of Sr₂SiO₄:Eu³⁺ and Sr₂SiO₄:Eu²⁺
Karol Szczodrowski, Justyna Barzowska, Natalia Górecka, Marek Grinberg
8. Investigating the thermal stability of luminescence from some w-LED phosphors
Suchinder Sharma, Irene Carrasco, Yuan-Chih Lin, Marco Bettinelli, Maths Karlsson
9. Up-conversion luminescence – a new property in tenebrescent Hackmanites
Isabella Norrbo, Mika Lastusaari

10. Research the centers of electron capture in K_2SO_4
Ainura Tussupbekova, Temirgaly Koketai, Askhat Baltabekov, Aizhan Salkeyeva
11. Green emitting $Ca_3SiO_4Cl_2$: Eu^{2+} phosphor for blue converted white LEDs
Rupesh Talewar, Pooja Yadav, Charusheela Joshi and S. V. Moharil
12. Scintillation properties of alkaline metal doped $LiCaAlF_6$
Takayuki Yanagida, Masanori Koshimizu, Yutaka Fujimoto, Kentaro Fukuda, Go Okada
13. $ZnGa_2O_4:Cr$ and $ZnGa_2O_4:Cr,Bi$ as new temperature sensing phosphors
Estelle Glais, Morgane Pellerin, Corinne Chanéac, Bruno Viana
14. Defect luminescence and relaxation kinetics in amorphous yttrium-alumino-borate (α -YAB) phosphors
Atul Sontakke, Vinicius Guimarães, Lauro Maia, Pauline Burner, Mathieu Salaun, Isabelle Gautier-Luneau, Alban Ferrier, Bruno Viana, Alain Ibanez
15. Dynamics of sensitization in $(Cr,Nd,Yb):YAG$ ceramics
Voicu Lupei, Aurelia Lupei, Cristina Gheorghe, Stefania Hau, Akio Ikesue
16. Electron-phonon interaction of Pr^{3+} and Sm^{3+} in YAG
Aurelia Lupei, Voicu Lupei, Stefania Hau, Cristina Gheorghe, Akio Ikesue
17. Effects of Si codoping on optical properties of Ce-doped $Ca_6BaP_4O_{17}$ from first-principles calculations
Lixin Ning, Huang Xiaoxiao, Zhiguo Xia
18. Ponderomotive forces mediate UV solid-state laser operation
Vadim Semashko, Oleg Akhtyamov, Alexey Nizamutdinov, Evangelia Sarantopoulou, Alciviadis-Constantinos Cefalas
19. Propagating, confined and interface acoustic phonon modes in GaN/AlN quantum wells
Yuhai Zan, Qu Yuan, Shiliang Ban
20. Luminescence properties of organic-inorganic layered perovskite-type compounds under vacuum ultraviolet irradiation
Naoki Kawano, Masanori Koshimizu, Yutaka Fujimoto, Keisuke Asai
21. Cyclical changes in optical properties of $SrTiO_3$ structure
Vitaliy Gorbenko, Galina Gorbenko
22. Polariton-like propagation of photoluminescence from exciton-exciton scattering in a GaAs/AlAs multiple-quantum-well structure
Yoshiaki Furukawa, Masaaki Nakayama
23. X-ray excited luminescence of $Ba_2MgSi_2O_7:Eu^{2+}$
Hongbin Liang, Jing Yan, Chunmeng Liu, Jianbang Zhou, Pieter Dorenbos, Bingbing Zhang, Yan Huang, Ye Tao
24. Ce^{3+} to Tb^{3+} energy transfer in $Ce_2(SO_4)_3$
Aarti Iyer Muley, S. Moharil
25. Luminescence study of SrB_4O_7 : Sm^{2+} as multimode temperature sensor with high sensitivity
Zhongmin Cao, Yonghu Chen, Xiantao Wei, Changkui Duan, Min Yin
26. Pathways of relaxation of excited states of Pr^{3+} in $Y_2Si_2O_7$: Pr^{3+} , Yb^{3+}
Karina Grzeszkiewicz, Wiesław Stręk, Dariusz Hreniak
27. Chromium pairs in combustion synthesized alpha-alumina
John Krebs, Sarah Robitaille, Ned Dixon, Linda Fritz
28. Energy transfer between different transitions within rare-earth ions
Jiuping Zhong, Hongbin Liang, Qiang Su

29. Peculiarities of Er³⁺ <--> Yb³⁺ energy transfer in CaSc₂O₄:Er:Yb
Angela Stefan, Serban Georgescu, Octavian Toma
30. Initial process of photoluminescence dynamics in a β-Ga₂O₃ single crystal
Suguru Yamaoka, Yoshiaki Furukawa, Masaaki Nakayama
31. Luminescence of Ce³⁺ ion activated potassium gadolinium pyrosilicates phosphor under vacuum ultraviolet and X-Rays excitation
Ni Haiyong, Liang Hongbin
32. Near-infrared spectroscopy of lattice defects in anion-defective sapphire at 4-300 K
Zhayloo Mamytbekov, Igor Milman, Maksim Sarychev, Aleksandr Syurdo, Rinat Abashev, Viktor Voinov
33. Influence of synthesis parameters on the spectroscopic properties of Ca₉Y(PO₄)₇ doped with Eu³⁺, Eu²⁺
Natalia Gorecka, Karol Szczodrowski, Justyna Barzowska, Marek Grinberg
34. Photoemission calculations using projection operator method for metals and semiconductors.
Zoliana Bawitlung, Ram Thapa
35. Luminescence properties and energy transfer of GdBO₃:Ce³⁺, Tb³⁺ phosphor
Qihong Zhang, Haiyong Ni, Lingli Wang, Fangming Xiao
36. MREI-model calculation of two-mode property of bulk transverse optical phonons and its influence on electronic mobility in Al_xGa_{1-x}N/GaN quantum well
Gu Zhuo, Ban Shiliang, Qu Yuan
37. Anomalous polaritonic luminescence from rare-gas solids
Alexander Ogurtsov, Nikolaj Kleshchev, Olga Bliznjuk
38. Nonlinear composition dependent optical spectroscopy of Ba_{2x}Sr_{2-2x}V₂O₇
Hongwei Fang, Yonghu Chen, Chang-Kui Duan, Min Yin
39. The environmental factor model: a tool for the design of Eu²⁺-doped orthophosphate phosphors?
Mariam Amer, Philippe Boutinaud
40. Relaxation through conical intersection: quantum friction of pseudorotation and Slonczewski resonances
Kaja Pae and Vladimir Hizhnyakov
41. Electroluminescence of PLZT relaxor ceramics at fast-rising electric fields
Suleyman Kallaev, Sadyk Sadykov
42. Green emission of U⁶⁺ activated lithium based tungstates
Swapnil Pote
43. Tunable and white-light emission nitride phosphors Ca₂Si₅N₈:Ce³⁺, Na⁺, Eu²⁺
Huan Jiao, Chao Li, ShiJie Qiu, Kun Li
44. TDDFT study of thiocarbonyl compounds in RAFT polymerization
Nadia Ouddai, Salima Zekri and Nadjia Latelli
45. Thermoluminescence of novel lanthanum oxide obtained by a glycine-based solution combustion method
Victor Orante-Barrón, Bakang Mothudi, Catalina Cruz-Vázquez, Rodolfo Bernal
46. Thermoluminescence of novel zinc oxide nanophosphors obtained by glycine-based solution combustion synthesis
Victor Orante-Barrón, Flor Escobar-Ochoa, Catalina Cruz-Vázquez,

Rodolfo Bernal

47. Plasmon-assisted upconversion energy-transfer in Er³⁺, Yb³⁺:LiNbO₃
David Hernandez-Pinilla, Pablo Molina, José L. Plaza, Mariola Ramirez, Luisa Bausá
48. Investigation on emission and topological phase transition of individual NaREF₄ nanoparticle
Chun-Hua Yan, Wei Feng, Ling-Dong Sun
49. Photon avalanche upconversion in rare-earth doped nanoparticles
Thomas Kornher, Roman Kolesov, Kangwei Xia, Rolf Reuter Rolf, Jörg Wrachtrup
50. Towards better understanding of the persistent luminescent properties of Cr-doped and Cr, Bi-doped ZnGa₂O₄ nanoparticles
Morgane Pellerin, Cristina Coelho-Diego, Christian Bonhomme, Nadia Touati, Laurent Binet, Corinne Chanéac, Bruno Viana
51. Influence of optical phonons on the electronic mobility in Al₂O₃/AlGaN/GaN double heterojunctions
Zhou Xiaojuan, Qu Yuan, Gu Zhuo, Zan Yuhai, Ban Shiliang, Wang Zhiping, Xiaojuan Zhou
52. Optical properties of CdTe quantum dot superlattices self-organized with electrostatic interaction
Taichi Watanabe, Yong-Sin Lee, Kohji Takahashi, DaeGwi Kim
53. Single donor-acceptor pair attached to a protein molecule as a tool for studying folding/unfolding fluctuations in the protein
Igor Osad'ko
54. Synthesis and spectroscopic properties of cage-like SrAl₂O₄:Eu²⁺ microspheres via a sol-gel method
J. Wan, Y. Zhang, Y. Wu, X. Qiao, F. Wang, X. Fan
55. Au islands enhanced luminescence of Er³⁺/Yb³⁺ co-doped Gd₂(MoO₄)₃ thin films and application in temperature sensing
Haoyue Hao, Yuxiao Wang, Xueru Zhang
56. Enhance the sensitivity of optical thermometer based on non-thermally coupled levels of Tm³⁺
Hongyu Lu, Yuxiao Wang, Xueru Zhang
57. Metal transition ion implantation on Ga₂O₃ nanowires
Alicia Gonzalo, Emilio Nogales, Bianchi Mendez, Javier Piqueras, Katharina Lorenz
58. Formation of chelated rare earth clusters in porous sol-gel silicate materials
Ann Silversmith, Nathan Arndt, Daniel Boye
59. Transport and recombination of photo-injected electrons in dye-sensitized solar cells based ZnO nanostructures
Baurzhan Ilyassov, Niyazbek Ibrayev
60. Study of surface effect on photoassisted field emission from Ta(112) and Ti(0001) by using the Transfer Hamiltonian method
Rosangliana Chawngthu and R. K. Thapa
61. Light induced toxicity of rare earth doped trifluoride crystalline nanoparticles
Maksim Pudovkin, Alina Krasheninnicova, Vadim Semashko, Alexey Nizamutdinov, Pavel Zelenihin, Egor Alakshin, Vitaliy Pavlov, Angelo Ferraro, Stella Korableva
62. Optical thermometry of Er³⁺-doped transparent NaYb₂F₇ glass-ceramics
Fangfang Hu, Xiantao Wei, Xinyue Li, Jiajia Cai, Yanguang Qin, Zeng Peng,

Yonghu Chen, Chang-Kui Duan, Min Yin

63. Enhanced near-infrared response of c-Si solar cell using YVO₄: Bi³⁺, Ln³⁺ (Ln = Yb and Nd) phosphors
R.A. Talewar, Charusheela Joshi, S. V. Moharil
64. Photo-physical properties of spin-coated lead halide perovskite thin films
Kien Wen Sun
65. Frequency selective transient and permanent spectral hole burning processes in Ce:YSO at liquid helium temperatures
Jenny Karlsson, Adam Nilsson, Diana Serrano, Andreas Walther, Lars Rippe, Stefan Kröll, Alban Ferrier, Philippe Goldner
66. Intersubband optical absorption between multi energy levels in InGaN/GaN spherical core-shell quantum dots
Wen-Hao Liu, Yuan Qu, Shi-Liang Ban
67. Directionally solidified Ce:LaBr₃/ CaBr₂ eutectic scintillator for radiation imaging applications
Kei Kamada, Hiroyuki Chiba, Shunsuke Kurosawa, Yasuhiro Shoji, Yuji Ohashi, Yuui Yokota, Akira Yoshikawa
68. Electronic structure of optical properties of host material (Gd₂O₂S, Gd₂O₃ and Gd₂O₃-xSx) for upconversion phosphor computational modeling
Wang Fei, Xiumin Chen, Bin Yang, Dachun Liu, Qingchun Yu
69. Giant negative magnetoresistance in oxygen-deficient Mn-substituted ZnO
X. L. Wang, Q. Shao, R. Lortz, J. N. Wang, Antonio Ruotolo,
70. Epitaxial seeded growth of rare earth nanocrystals with efficient 800 nm near-infrared to 1525 nm short-wavelength infrared downconversion photoluminescence for in vivo bioimaging
Rui Wang, Xiaomin Li, Lei Zhou, Fan Zhang
71. Single-band upconversion nanoprobe for multiplexed simultaneous in situ molecular mapping of cancer biomarkers
Zhou Lei, Zhang Fan
72. A many-particle quantum-kinetic formalism for describing emission properties of single quantum objects in frozen environments
Maxim G. Gladush, Andrei V. Naumov