

Mikhail G Brik

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

409
papers

9,905
citations

48
h-index

76
g-index

423
ext. papers

11,373
ext. citations

3.7
avg. IF

6.84
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 409 | Influence of Au, Ag, and Cu Adatoms on Optical Properties of TiO ₂ (110) Surface: Predictions from RT-TDDFT Calculations. <i>Crystals</i> , 2022 , 12, 452 | 2.3 | |
| 408 | The influence of nd0 transition metal cations on the Eu ³⁺ asymmetry ratio $R = I(5D_0 \rightarrow F_2) / I(5D_0 \rightarrow F_1)$ and crystal field splitting of 7F ₁ manifold in pyrochlore and zircon compounds. <i>Optical Materials</i> , 2021 , 114, 110931 | 3.3 | 3 |
| 407 | Luminescence of Mn ⁴⁺ in the orthorhombic perovskites, AZrO ₃ (A=Ca, Sr). <i>Optical Materials</i> , 2021 , 114, 110906 | 3.3 | 1 |
| 406 | First-principles investigations of geometrical and electronic structures of Mn ⁴⁺ doped A ₂ SiF ₆ (A=K, Rb, Cs) red phosphors. <i>Optical Materials</i> , 2021 , 115, 110986 | 3.3 | 4 |
| 405 | Zeeman splitting features of electronic states of rare earth ions in TbF ₃ crystal. <i>Optical Materials</i> , 2021 , 117, 111141 | 3.3 | 0 |
| 404 | Theoretical and Experimental Investigations of Mn ⁴⁺ Site Occupation in CaAl ₁₂ O ₁₉ . <i>ECS Journal of Solid State Science and Technology</i> , 2021 , 10, 076004 | 2 | 1 |
| 403 | Effects of chemical composition on the structural stability, elastic, vibrational, and electronic properties of Cs ₂ NaLnX ₆ (Ln=La, Lu, X=F, Cl, Br, I) elpasolites. <i>Journal of the American Ceramic Society</i> , 2021 , 104, 1489-1500 | 3.8 | 2 |
| 402 | High moisture resistance of an efficient Mn ⁴⁺ -activated red phosphor Cs ₂ NbOF ₅ :Mn ⁴⁺ for WLEDs. <i>Chemical Engineering Journal</i> , 2021 , 405, 126678 | 14.7 | 22 |
| 401 | Emission features of Er ³⁺ ions in an exotic SeO ₂ based glass system. <i>Journal of Non-Crystalline Solids</i> , 2021 , 556, 120558 | 3.9 | 4 |
| 400 | Effect of Temperature and High Pressure on Luminescence Properties of Mn ³⁺ Ions in Ca ₃ Ga ₂ Ge ₃ O ₁₂ Single Crystals. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 5146-5157 | 3.8 | 5 |
| 399 | Boltzmann Thermometry in Cr ³⁺ -Doped Ga ₂ O ₃ Polymorphs: The Structure Matters!. <i>Advanced Optical Materials</i> , 2021 , 9, 2100033 | 8.1 | 37 |
| 398 | Locating impurity and defect levels in the host band gap by first-principles calculations: Pure and Ce ³⁺ -doped YAlO ₃ . <i>Optical Materials</i> , 2021 , 113, 110843 | 3.3 | 1 |
| 397 | Impact of anionic system modification on the desired properties for CuGa(SiBe) ₂ solid solutions. <i>Computational Materials Science</i> , 2021 , 196, 110553 | 3.2 | 1 |
| 396 | Temperature dependence of the Cr ³⁺ -DOPED Mg ₂ TiO ₄ near-infrared emission. <i>Optical Materials</i> , 2021 , 120, 111468 | 3.3 | 7 |
| 395 | Structure, luminescence of Eu and Eu in CaMgSiO and their co-existence for the excitation-wavelength/temperature driven colour evolution. <i>Dalton Transactions</i> , 2021 , 50, 10050-10058 ^{4.3} | 4.3 | 2 |
| 394 | First-Principles Study of Optical Absorption Energies, Ligand Field and Spin-Hamiltonian Parameters of Cr Ions in Emeralds.. <i>Inorganic Chemistry</i> , 2021 , | 5.1 | 1 |
| 393 | Hexagonal SrAlSiO:Eu,Dy transparent ceramics with tuneable persistent luminescence properties. <i>Dalton Transactions</i> , 2020 , 49, 16849-16859 | 4.3 | 4 |

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| 392 | Anomalous photoluminescence from a K ₂ LiInF ₆ :Mn ⁴⁺ phosphor. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 8085-8090 | 7.1 | 4 |
| 391 | Optical properties of SrSi ₂ O ₂ N ₂ :Eu ²⁺ phosphor enhanced by the addition of carbonate or fluoride reactive agents. <i>Journal of Alloys and Compounds</i> , 2020 , 845, 155468 | 5.7 | 7 |
| 390 | 3d Ions in Solids and Microscopic Crystal Field Effects: Theoretical Analysis and Relations with Experimental Spectroscopic Data. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 835, 012032 | 0.4 | 1 |
| 389 | Effective Ratiometric Luminescent Thermal Sensor by Cr ³⁺ -Doped Mullite Bi ₂ Al ₄ O ₉ with Robust and Reliable Performances. <i>Advanced Optical Materials</i> , 2020 , 8, 2000124 | 8.1 | 57 |
| 388 | Rare-earth ions incorporation into Lu ₂ Si ₂ O ₇ scintillator crystals: Electron paramagnetic resonance and luminescence study. <i>Optical Materials</i> , 2020 , 106, 109930 | 3.3 | 3 |
| 387 | First-principles analysis of physical properties anisotropy for the Ag ₂ SiS ₃ chalcogenide semiconductor. <i>Journal of Alloys and Compounds</i> , 2020 , 826, 154232 | 5.7 | 7 |
| 386 | Influence of low-symmetry component of crystal field on gemstones colors: Cr ³⁺ in ruby and emerald. <i>Journal of Luminescence</i> , 2020 , 221, 117061 | 3.8 | 3 |
| 385 | Energy band structure and optical band gap calculations of AgSbO ₃ photo-catalytic pyrochlore crystal phase embedded in Ag ₂ O doped sodium antimonate glass ceramics. <i>Optik</i> , 2020 , 206, 164345 | 2.5 | 1 |
| 384 | Ultrabroadband red luminescence of Mn in MgAlO peaking at 651 nm. <i>Dalton Transactions</i> , 2020 , 49, 5711-5721 | 4.3 | 14 |
| 383 | Mn ⁴⁺ Ions for Solid State Lighting. <i>Chinese Journal of Luminescence</i> , 2020 , 41, 1011-1029 | 1.4 | 8 |
| 382 | Dependence of the Mn ⁴⁺ spectroscopic properties on the host composition: Case study of stannate pyrochlores A ₂ Sn ₂ O ₇ (A = La, Gd, Y, Lu). <i>Journal of Luminescence</i> , 2020 , 218, 116834 | 3.8 | 5 |
| 381 | The optical properties of Bi ³⁺ and Sb ³⁺ in YNbTiO ₆ analysed by means of DOS and semi-empirical calculations. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2086-2093 | 7.1 | 5 |
| 380 | Single-Crystal Red Phosphors: Enhanced Optical Efficiency and Improved Chemical Stability for wLEDs. <i>Advanced Optical Materials</i> , 2020 , 8, 1901512 | 8.1 | 26 |
| 379 | Chromium(III)-Doped Fluoride Phosphors with Broadband Infrared Emission for Light-Emitting Diodes. <i>Inorganic Chemistry</i> , 2020 , 59, 376-385 | 5.1 | 38 |
| 378 | AgGaTe ₂ The thermoelectric and solar cell material: Structure, electronic, optical, elastic and vibrational features. <i>Infrared Physics and Technology</i> , 2020 , 111, 103476 | 2.7 | 3 |
| 377 | On the Mn ⁴⁺ R-line Intensity and energy in the perovskite layer of SrLaAlO ₄ and Sr ₂ TiO ₄ : A comparative study with LaAlO ₃ and SrTiO ₃ . <i>Optical Materials</i> , 2020 , 109, 110372 | 3.3 | 2 |
| 376 | An old system revisited: Al ₂ O ₃ :Ti ³⁺ - Microscopic crystal field effects explored by the crystal field and first-principles calculations. <i>Journal of Alloys and Compounds</i> , 2020 , 847, 156459 | 5.7 | 5 |
| 375 | Two targets with one strategy: Insights into the role of aluminum atoms on the luminescence properties and thermal stability in Mn ⁴⁺ -doped calcium aluminozincate phosphor. <i>Journal of Alloys and Compounds</i> , 2020 , 849, 156567 | 5.7 | 10 |

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| 374 | Pushing the Limit of Boltzmann Distribution in Cr-Doped CaHfO for Cryogenic Thermometry. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38325-38332 | 9.5 | 47 |
| 373 | Luminescence of Mn ⁴⁺ activated Li ₄ Ti ₅ O ₁₂ . <i>Journal of Luminescence</i> , 2020 , 228, 117646 | 3.8 | 5 |
| 372 | Nd ³⁺ -Doped Lead Boro Selenate Glass: A New Efficient System for Near-Infrared 1.06 μ m Laser Emission. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 2000602 | 1.6 | 2 |
| 371 | Judd-Ofelt parametrization from emission spectra: The case study of the Eu ³⁺ 5D ₁ emitting level. <i>Chemical Physics</i> , 2020 , 528, 110513 | 2.3 | 23 |
| 370 | Ratiometric Luminescent Thermometers with a Customized Phase-Transition-Driven Fingerprint in Perovskite Oxides. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38937-38945 | 9.5 | 35 |
| 369 | High-performance and moisture-resistant red-emitting Cs ₂ SiF ₆ :Mn ⁴⁺ for high-brightness LED backlighting. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2401-2407 | 7.1 | 44 |
| 368 | On the structure, synthesis, and characterization of ultrafast blue-emitting CsPbBr ₃ nanoplatelets. <i>APL Materials</i> , 2019 , 7, 011104 | 5.7 | 24 |
| 367 | Crystal structure analysis and evidence of mixed anion coordination at the Ce ³⁺ site in Y ₃ Al ₂ (Al,Si) ₃ (O,N) ₁₂ oxynitride garnet phosphor. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 1330-1336 | 7.1 | 14 |
| 366 | Significantly conquering moisture-induced luminescence quenching of red line-emitting phosphor Rb ₂ SnF ₆ :Mn ⁴⁺ through H ₂ C ₂ O ₄ triggered particle surface reduction for blue converted warm white light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 247-255 | 7.1 | 40 |
| 365 | Optical spectrum of Mn ⁴⁺ in Y ₂ Ti _{2-x} Sn _x O ₇ pyrochlore solid solution: R-line energy and intensity. <i>Optical Materials</i> , 2019 , 95, 109196 | 3.3 | 4 |
| 364 | Li ₂ TiO ₃ :Mn ⁴⁺ Deep-Red Phosphor for the Lifetime-Based Luminescence Thermometry. <i>ChemistrySelect</i> , 2019 , 4, 7067-7075 | 1.8 | 24 |
| 363 | Non-equivalent Mn ⁴⁺ doping into A ₂ NaScF ₆ (A = K, Rb, Cs) hosts toward short fluorescence lifetime for backlight display application. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9203-9210 | 7.1 | 32 |
| 362 | Site occupancy and spectroscopic properties of Mn ⁴⁺ in double perovskites, La ₂ MgGeO ₆ . <i>Optical Materials</i> , 2019 , 94, 148-151 | 3.3 | 5 |
| 361 | Optical properties of 3d transition metal ion-doped aluminophosphate glasses. <i>Journal of Luminescence</i> , 2019 , 213, 263-272 | 3.8 | 12 |
| 360 | Recent insights into upconverting nanoparticles: spectroscopy, modeling, and routes to improved luminescence. <i>Nanoscale</i> , 2019 , 11, 12015-12029 | 7.7 | 53 |
| 359 | 3P ₀ - ¹ D ₂ non-radiative relaxation control via IVCT state in Pr ³⁺ -doped Na ₂ Ln ₂ Ti ₃ O ₁₀ (Ln=La, Gd) micro-crystals with triple-layered perovskite structure. <i>Journal of Luminescence</i> , 2019 , 213, 510-518 | 3.8 | 4 |
| 358 | Epitaxial growth via anti-solvent-induced deposition towards a highly efficient and stable Mn ⁴⁺ doped fluoride red phosphor for application in warm WLEDs. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 6077-6084 | 7.1 | 31 |
| 357 | Impacts of 5d electron binding energy and electron-phonon coupling on luminescence of Ce in LiY(BO) ₃ . <i>RSC Advances</i> , 2019 , 9, 7908-7915 | 3.7 | 9 |

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| 356 | On the Mn ⁴⁺ R-line emission intensity and its tunability in solids. <i>Optical Materials</i> , 2019 , 91, 338-343 | 3.3 | 37 |
| 355 | Zone-center phonons and elastic properties of ternary chalcopyrite ABSe ₂ (A = Cu and Ag; B = Al, Ga and In). <i>Materials Chemistry and Physics</i> , 2019 , 227, 324-331 | 4.4 | 6 |
| 354 | Local coordination, electronic structure, and thermal quenching of Ce ³⁺ in isostructural Sr ₂ GdAlO ₅ and Sr ₃ AlO ₄ F phosphors. <i>Journal of the American Ceramic Society</i> , 2019 , 102, 1316-1328 | 3.8 | 6 |
| 353 | Ab initio analysis of the optical spectra and EPR parameters of Ni ²⁺ ions in CaF ₂ and CdF ₂ crystals. <i>Journal of Luminescence</i> , 2019 , 214, 116577 | 3.8 | 3 |
| 352 | Intense deep-red zero phonon line emission of Mn in double perovskite LaTiO. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 25108-25117 | 3.6 | 12 |
| 351 | A far-red-emitting NaMgLaTeO ₆ :Mn ⁴⁺ phosphor with perovskite structure for indoor plant growth. <i>Dyes and Pigments</i> , 2019 , 162, 214-221 | 4.6 | 72 |
| 350 | Spectroscopy of Mn ⁴⁺ in orthorhombic perovskite, LaInO ₃ . <i>Journal of Luminescence</i> , 2019 , 206, 398-402 | 3.8 | 21 |
| 349 | Thermal quenching of Mn ⁴⁺ luminescence in SrAl ₁₂ O ₁₉ :Mn ⁴⁺ . <i>Journal of Luminescence</i> , 2019 , 206, 84-90 | 3.8 | 31 |
| 348 | La ₆ Ba ₄ Si ₆ O ₂₄ F ₂ :Sm ³⁺ novel red-emitting phosphors: Synthesis, photoluminescence and theoretical calculations. <i>Journal of Luminescence</i> , 2019 , 206, 417-425 | 3.8 | 44 |
| 347 | Spectroscopic properties and martensitic phase transition of Y ₄ Al ₂ O ₉ :Ce single crystals under high pressure. <i>Acta Materialia</i> , 2019 , 165, 346-361 | 8.4 | 8 |
| 346 | The electronic and optical properties of a narrow-band red-emitting nanophosphor K ₂ NaGaF ₆ :Mn ⁴⁺ for warm white light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 3016-3025 | 7.1 | 65 |
| 345 | Phase-transition-induced giant enhancement of red emission in Mn ⁴⁺ -doped fluoride elpasolite phosphors. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 3951-3960 | 7.1 | 46 |
| 344 | Origin of the β_1 parameter describing the nephelauxetic effect in transition metal ions with spin-forbidden emissions. <i>Journal of Luminescence</i> , 2018 , 197, 142-146 | 3.8 | 4 |
| 343 | A short review of theoretical and empirical models for characterization of optical materials doped with the transition metal and rare earth ions. <i>Optical Materials</i> , 2018 , 79, 129-136 | 3.3 | 8 |
| 342 | Mn ²⁺ and Mn ⁴⁺ red phosphors: synthesis, luminescence and applications in WLEDs. A review. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2652-2671 | 7.1 | 348 |
| 341 | Vacuum Referred Binding Energy Scheme, Electron-Vibrational Interaction, and Energy Transfer Dynamics in BaMg ₂ Si ₂ O ₇ :Ln (Ce ³⁺ , Eu ²⁺) Phosphors. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 2959-2967 | 3.8 | 17 |
| 340 | Control of Luminescence by Tuning of Crystal Symmetry and Local Structure in Mn ²⁺ -Activated Narrow Band Fluoride Phosphors. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 1797-1801 | 16.4 | 70 |
| 339 | First-principles and crystal-field calculations of the electronic and optical properties of two novel red phosphors Rb ₂ HfF ₆ :Mn ⁴⁺ and Cs ₂ HfF ₆ :Mn ⁴⁺ . <i>Journal of the American Ceramic Society</i> , 2018 , 101, 2368-2375 | 3.8 | 9 |

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| 338 | First-principles calculations of different (001) surface terminations of three cubic perovskites CsCaBr ₃ , CsGeBr ₃ , and CsSnBr ₃ . <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 115, 289-299 | 3.9 | 16 |
| 337 | Control of Luminescence by Tuning of Crystal Symmetry and Local Structure in Mn ⁴⁺ -Activated Narrow Band Fluoride Phosphors. <i>Angewandte Chemie</i> , 2018 , 130, 1815-1819 | 3.6 | 6 |
| 336 | Vibrational and elastic properties of silicate spinels A ₂ SiO ₄ (A = Mg, Fe, Ni, and Co). <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 117, 167-172 | 3.9 | 2 |
| 335 | Ab-initio studies of the electronic and optical properties of Al ₂ O ₃ :Ti ³⁺ laser crystals. <i>Physica B: Condensed Matter</i> , 2018 , 532, 178-183 | 2.8 | 21 |
| 334 | Ab initio calculations of the electronic structure and specific optical features of LiNH_4SO_4 single crystals. <i>Physica B: Condensed Matter</i> , 2018 , 528, 37-46 | 2.8 | 10 |
| 333 | Narrow Band Deep Red Photoluminescence of Y ₂ Mg ₃ Ge ₃ O ₁₂ :Mn ⁴⁺ ,Li+Inverse Garnet for High Power Phosphor Converted LEDs. <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, R3086-R3092 | 3.2 | 46 |
| 332 | Spectroscopy of Mn ⁴⁺ in Double Perovskites, La ₂ LiSbO ₆ and La ₂ MgTiO ₆ : Deep Red Photon Generators for Agriculture LEDs. <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, R3158-R3162 | 3.2 | 55 |
| 331 | Critical Review A Review of the Electronic Structure and Optical Properties of Ions with d ³ Electron Configuration (V ²⁺ , Cr ³⁺ , Mn ⁴⁺ , Fe ⁵⁺) and Main Related Misconceptions. <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, R3079-R3085 | 2 | 57 |
| 330 | Intense hypersensitive luminescence of Eu ³⁺ -doped YSiO ₂ N oxynitride with near-UV excitation. <i>Optical Materials</i> , 2018 , 83, 111-117 | 3.3 | 5 |
| 329 | Development of persistent phosphor of Eu ²⁺ doped Ba ₂ SiO ₄ by Er ³⁺ codoping based on vacuum referred binding energy diagram. <i>Optical Materials</i> , 2018 , 84, 436-441 | 3.3 | 6 |
| 328 | Highly Stable KSiF:Mn@KSiF Composite Phosphor with Narrow Red Emission for White LEDs. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18082-18092 | 9.5 | 125 |
| 327 | A new reductive dl-mandelic acid loading approach for moisture-stable Mn doped fluorides. <i>Chemical Communications</i> , 2018 , 54, 11857-11860 | 5.8 | 47 |
| 326 | Luminescence of Bi ³⁺ in the double perovskite, La ₂ MgTiO ₆ . <i>Optical Materials</i> , 2018 , 75, 809-813 | 3.3 | 12 |
| 325 | Luminescence properties of Eu ²⁺ -activated NaCaBeSi ₂ O ₆ F for white light-emitting diode applications. <i>Materials Research Bulletin</i> , 2018 , 100, 26-31 | 5.1 | 7 |
| 324 | Optical absorption spectra and g factor of MgO: Mn ²⁺ -explored by ab initio and semi empirical methods. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 113, 194-200 | 3.9 | 4 |
| 323 | Interpretation of the Spectroscopic Properties of LiAlO_2 : Mn ⁴⁺ . <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, R3012-R3015 | 2 | 8 |
| 322 | Mn-Doped Heterodialkyl Fluorogermanate Red Phosphor with High Quantum Yield and Spectral Luminous Efficacy for Warm-White-Light-Emitting Device Application. <i>Inorganic Chemistry</i> , 2018 , 57, 14705-14714 | 5.1 | 29 |
| 321 | Luminescence and Cationic-Size-Driven Site Selection of Eu and Ce Ions in CaMg(SiO)Cl. <i>Inorganic Chemistry</i> , 2018 , 57, 14872-14881 | 5.1 | 16 |

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| 320 | Luminescence characteristics of Er ³⁺ ions in ZnO-Ta ₂ O ₅ /Nb ₂ O ₅ /ZrO ₂ -B ₂ O ₃ glass system- A case study of energy transfer from ZnO to Er ³⁺ ions. <i>Optical Materials</i> , 2018 , 86, 87-94 | 3.3 | 11 |
| 319 | Ratiometric optical thermometry using deep red luminescence from 4T ₂ and 2E states of Cr ³⁺ in ZnGa ₂ O ₄ host. <i>Optical Materials</i> , 2018 , 85, 510-516 | 3.3 | 62 |
| 318 | Revisiting Cr-Doped BiGaO Spectroscopy: Crystal Field Effect and Optical Thermometric Behavior of Near-Infrared-Emitting Singly-Activated Phosphors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 41512-41524 | 9.5 | 78 |
| 317 | High Color Rendering Index of Rb ₂ GeF ₆ :Mn ⁴⁺ for Light-Emitting Diodes. <i>Chemistry of Materials</i> , 2017 , 29, 935-939 | 9.6 | 148 |
| 316 | Ionicity and birefringence of LiNH ₄ SO ₄ crystals: ab initio DFT study, X-ray spectroscopy measurements. <i>RSC Advances</i> , 2017 , 7, 6889-6901 | 3.7 | 10 |
| 315 | Experimental and first-principles studies of high-pressure effects on the structural, electronic, and optical properties of semiconductors and lanthanide doped solids. <i>Japanese Journal of Applied Physics</i> , 2017 , 56, 05FA02 | 1.4 | 4 |
| 314 | Effects of composition on the properties of mixed CdSi _{1-x} GexAs ₂ chalcopyrites as explored by the first-principles calculations. <i>Materials and Design</i> , 2017 , 126, 250-258 | 8.1 | 4 |
| 313 | Insulating characteristics of zinc niobium borate glass-ceramics. <i>Journal of the American Ceramic Society</i> , 2017 , 100, 4066-4080 | 3.8 | 17 |
| 312 | Facile synthesis, morphology and photoluminescence of a novel red fluoride nanophosphor K ₂ NaAlF ₆ :Mn ⁴⁺ . <i>Journal of Materials Chemistry C</i> , 2017 , 5, 6420-6426 | 7.1 | 89 |
| 311 | Photoluminescence properties of a novel red fluoride K ₂ LiGaF ₆ :Mn ⁴⁺ nanophosphor. <i>RSC Advances</i> , 2017 , 7, 30588-30593 | 3.7 | 41 |
| 310 | Vacuum referred binding energy scheme for rare earth ions in RE ₂ BaZnO ₅ [RE=Y, Gd, La]. <i>Optical Materials</i> , 2017 , 70, 57-62 | 3.3 | 7 |
| 309 | Bifunctional Bi ₂ ZnOB ₂ O ₆ :Nd ³⁺ Single Crystal for Near Infrared Lasers: Luminescence and Raman Investigations. <i>Crystal Growth and Design</i> , 2017 , 17, 3656-3664 | 3.5 | 15 |
| 308 | Band structure, electronic and optical features of Tl ₄ SnX ₃ (X=Bi, Te) ternary compounds for optoelectronic applications. <i>Journal of Alloys and Compounds</i> , 2017 , 710, 600-607 | 5.7 | 20 |
| 307 | Luminescence of Mn ⁴⁺ ions in CaTiO ₃ and MgTiO ₃ perovskites: Relationship of experimental spectroscopic data and crystal field calculations. <i>Optical Materials</i> , 2017 , 74, 46-51 | 3.3 | 25 |
| 306 | Controlled morphology and improved photoluminescence of red emitting K ₂ LiAlF ₆ :Mn ⁴⁺ nano-phosphor by co-doping with alkali metal ions. <i>Optical Materials</i> , 2017 , 74, 52-57 | 3.3 | 12 |
| 305 | High pressure studies of Eu ²⁺ and Mn ²⁺ doped NaScSi ₂ O ₆ clinopyroxenes. <i>RSC Advances</i> , 2017 , 7, 275-284 | 3.4 | 8 |
| 304 | Comparative first-principles calculations of the electronic, optical, elastic and thermodynamic properties of XCaF ₃ (X = K, Rb, Cs) cubic perovskites. <i>Materials Chemistry and Physics</i> , 2017 , 188, 39-48 | 4.4 | 18 |
| 303 | Mixed vanadates: Optimization of optical properties by varying chemical composition. <i>Journal of Luminescence</i> , 2017 , 189, 140-147 | 3.8 | 5 |

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|-----|---|-----|-----|
| 302 | Characterization of blue-excited yellow phosphor $(Y,Ca)_{6+x}/3Si_{11}(N,O)_{21}:Ce$ by the bond valence sum model. <i>RSC Advances</i> , 2017 , 7, 40152-40157 | 3-7 | 4 |
| 301 | Luminescent, optical and electronic properties of $Na_2Mo_2O_7$ single crystals. <i>Journal of Luminescence</i> , 2017 , 192, 1264-1272 | 3-8 | 19 |
| 300 | The nature of Bi^{3+} luminescence in the double perovskite, La_2LiSbO_6 . <i>Journal of Luminescence</i> , 2017 , 192, 620-625 | 3-8 | 19 |
| 299 | Electronic structure of Ce^{3+} in yttrium and lutetium orthoaluminate crystals and single crystal layers. <i>Journal of Alloys and Compounds</i> , 2017 , 723, 157-163 | 5-7 | 2 |
| 298 | Influence of Bi^{3+} ions on the amplification of 1.3 μm emission of Pr^{3+} ions in lead silicate glasses for the applications in second telecom window communications. <i>Journal of Luminescence</i> , 2017 , 182, 312-322 | 3-8 | 35 |
| 297 | Crystal field splitting of 5d states and luminescence mechanism in $SrAl_2O_4:Eu^{2+}$ phosphor. <i>Journal of Luminescence</i> , 2017 , 182, 79-86 | 3-8 | 39 |
| 296 | The nature of Mn^{4+} luminescence in the orthorhombic perovskite, $GdAlO_3$. <i>Optical Materials</i> , 2017 , 63, 207-212 | 3-3 | 26 |
| 295 | Luminescence of Mn^{4+} in the orthorhombic perovskite, $LaGaO_3$. <i>Journal of Luminescence</i> , 2017 , 183, 437-441 | 3-8 | 24 |
| 294 | Red-emitting phosphor $Rb_2TiF_6:Mn^{4+}$ with high thermal-quenching resistance for wide color-gamut white light-emitting diodes. <i>Optical Materials</i> , 2017 , 72, 78-85 | 3-3 | 21 |
| 293 | Luminescence enhancement in the $Sr_2ZnW_{1-x}MoxO_6:Eu^{3+},Li^+$ phosphor for near ultraviolet based solid state lighting. <i>Journal of Alloys and Compounds</i> , 2016 , 685, 917-926 | 5-7 | 42 |
| 292 | Energy level schemes of f n electronic configurations for the di-, tri-, and tetravalent lanthanides and actinides in a free state. <i>Journal of Luminescence</i> , 2016 , 170, 369-374 | 3-8 | 32 |
| 291 | First-principle calculations of the structural, elastic and bonding properties of $Cs_2NaLnCl_6$ ($Ln=La, Lu$) cubic elpasolites. <i>Journal of Luminescence</i> , 2016 , 169, 415-418 | 3-8 | 3 |
| 290 | Strong second harmonic generation in $LiInX_2$ ($X=Se, Te$) chalcopyrite crystals as explored by first-principles methods. <i>Journal of Alloys and Compounds</i> , 2016 , 675, 355-363 | 5-7 | 15 |
| 289 | Luminescence of Ce^{3+} -Doped $MB_2Si_2O_8$ ($M = Sr, Ba$): A Deeper Insight into the Effects of Electronic Structure and Stokes Shift. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 569-580 | 3-8 | 23 |
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