**International Publication (ISI journal) with Impact Factor (177 papers) [Updated August 2021]**

**1. KaewkhaoJ.,** Laopaiboon J. and Chewpraditkul W., 2008, **“Determination of Effective Atomic Numbers and Effective Electron Densities for Cu/Zn Alloy”** Journal of Quantitative Spectroscopy and Radiative Transfer,109(7), pp.1260-1265. **[Q2, IF = 2.468]**

**2. Kaewkhao, J.**, Udomkan, N., Chewpraditkul, W. and Limsuwan, P., 2009, **”Effect of excess bismuth on the synthesis of bismuth silicate (Bi4Si3O12) Polycrystals”**, International Journal of Modern Physics B (IJMPB), Vol. 23(8), pp. 2093-2099. **[Q3, IF = 0.833]**

3. Kirdsiri, K., **Kaewkhao, J.**, Pokaipisit, A.,Chewpraditkul, W. and Limsuwan P., 2009, **“Gamma-rays shielding properties of xPbO:(100-x)B2O3 glasses system at 662 keV”,** Annals of Nuclear Energy, Vol. 36 (9), pp. 1360-1365. **[Q2, IF = 1.776]**

4. **Kaewkhao, J.**, Pokaipisit, A. and Limsuwan, P., 2010, **“Study on borate glass system containing with Bi2O3 and BaO for gamma-rays shielding materials: comparison with PbO”**, Journal of Nuclear Materials, Vol. 399 (1), pp. 38-40. **[Q1, IF = 2.936]**

5. Chimalawong, P., **Kaewkhao, J.**, Kedkaew, C. and Limsuwan, P., **2010**, **“Optical and electronic polarizability investigation of Nd3+ doped soda-lime-silicate glasses”,** Journal of Physics and Chemistry of Solids, Vol. 71(7), pp. 965-970. **[Q2, IF = 3.995]**

6. Limkitjaroenporn, P., **Kaewkhao, J.**, Limsuwan, P. and Chewpraditkul, W, **2010**, **“**Advances in Materials Science and Engineering **proportionality of electron respond using CCT: plastic scintillator”,** Applied Radiation and Isotope,Vol. 68, pp. 1780-1784. **[Q2, IF = 1.513]**

7. **Kaewkhao, J.**, and Limsuwan, P., 2010, **“Mass attenuation coefficients and effective atomic numbers in phosphate glass containing Bi2O3, PbO and BaO at 662 keV”**, Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment,Vol. 619, pp. 295-297. **[Q2, IF = 1.455]**

8. Limkitjaroenporn, P., **Kaewkhao, J.**, Limsuwan, P. and Chewpraditkul, W, 2011, **“Physical, optical, structural and gamma-ray shielding properties of lead sodium borate glasses”,** Journal of Physics and Chemistry of Solids, Vol. 72(4), pp. 245-251. **[Q2, IF = 3.995]**

9. Park, J.M., Kim, H.J., Kim, S., Cheon, J.K., **Kaewkhao, J.**, Limsuwan, P. and Insiripong., S., 2011, **“X-ray and proton luminescence of bismuth-borate glasses”,** Journal of Korean Physical Society, Vol. 59(2), pp. 657-660.  **[Q4, IF = 0.560]**

10. **Kaewkhao, J.**, Kirdsiri, K., Limkitjaroenporn, P., Limsuwan, P., Park, J.M. and Kim, H.J., 2011, **“Interaction of 662 keV gamma-rays on bismuth based glass matrices”,** Journal of Korean Physical Society, Vol. 59(2), pp. 661-665. **[Q4, IF = 0.560]**

11. Kirdsiri, K., **Kaewkhao, J**., Chanthima, N. and Limsuwan P., 2011, **“Comparative Study of Silicate Glass of Bi2O3,PbO and BaO Containing: Radiation Shielding and Optical Properties”** Annals of Nuclear Energy**,** 38, pp. 1438-1441. **[Q2, IF = 1.776]**

12. Chanthima, N., **Kaewkhao, J.** and Limsuwan, P., **2012**, **“Study of photon interactions and shielding properties of silicate glasses containing Bi2O3, BaO and PbO in the energy region of 1 keV to 100 GeV”,** Annals of Nuclear Energy, Vol. 41, pp. 119-124. **[Q2, IF = 1.776]**

13. Tuscharoen, S., **Kaewkhao, J.**, Limkitjaroenporn, P., Chewpraditkul, W. and Limsuwan, P., **2012**, **“Improvement of BaO:B2O3:fly ash glasses: Radiation shielding, physical and optical properties”**, Annals of Nuclear Energy, Vol. 49, pp. 109-113. **[Q2, IF = 1.776]**

14. Park, J.M., Kim, H.J., Limsuwan, P. and **Kaewkhao, J.**, 2012, **“Luminescence property of rare-earth-doped bismuth-borate glasses with different concentrations of bismuth and rare-earth material”**, Journal of Korean Physical Society, Vol. 61(2), pp. 248-253. **[Q4, IF = 0.560]**

15. Kaewwiset, W., Thamaphat, K., **Kaewkhao, J.** and Limsuwan, P., 2013, “ESR and spectral studies of Er3+ ions in soda-lime silicate glass**”**, Physica B, Vol. 409(15), pp. 24 - 29. **[Q3, IF = 2.436]**

16. Limkitjaroenporn, P., **Kaewkhao, J.** and Asavavisithchai,S., 2013, **“Determination of mass attenuation coefficients and effective atomic numbers for Inconel 738 alloy for different energies obtained from Compton scattering”**, Annals of Nuclear Energy, Vol. 53, pp.64-68. **[Q2, IF = 1.776]**

17. Chanthima, N. and **Kaewkhao, J.,** 2013, **“Investigation on Radiation Shielding Parameters of Bismuth Borosilicate Glass from 1 keV to 100 GeV”** Annals of Nuclear Energy, 55, pp.23-28. **[Q2, IF = 1.776]**

18. Yasaka, P., Pattanaboonmee, N., Kim, H.J., Limkitjaroenporn, P. and **Kaewkhao, J.**,2014, **“Gamma radiation shielding and optical properties measurements of zinc bismuth borate glasses”**, Annals of Nuclear energy, Vol. 68, pp. 4-9. **[Q2, IF = 1.776]**

19. Singh, V.P., Badiger, N.M., Chanthima, N. and **Kaewkhao, J.,** 2014, **“Evaluation of gamma-ray exposure buildup factors and neutron shielding for bismuth borosilicate glasses”**, Radiation Physics and Chemistry, Vol. 98, pp. 14-21. **[Q1, IF = 2.858]**

20. Ruamnikhom, R., Limsuwan, P., Horprathum, M., Chanthima, N., Kim, H.J., Ruengsri, S., and **Kaewkhao, J.,** 2014, **“Up and down-conversion luminescence properties of Nd3+ ions doped in Bi2O3-BaO-B2O3 glass system”,** Advances in Materials Science and Engineering, pp. 1-5. (ID 751953) **[Q4, IF = 1.271]**

21. Limkitjaroenporn, P. and **Kaewkhao, J.,** 2014, **“Gamma-rays attenuation of zircons from cambodia and south africa at different energies: A new technique for identifying the origin of gemstone”,** Radiation Physics and Chemistry, 103, pp.67-71. **[Q1, IF = 2.858]**

22. Singh, V.P., Badiger, N.M., and **Kaewkhao, J.,** 2014, **“Radiation Shielding Competence of Silicate and Borate Heavy Metal Oxide Glasses: Comparative Study”**, Journal of Non-Crystalline Solids, 404, pp. 167-173. **[Q1, IF = 3.531]**

23. Kaewjang, S., Maghanemi, U., Kothan, S., Kim, H.J., Limkitjaroenporn, P., and **Kaewkhao, J.,** 2014, **"New Gadolinium Based Glasses for Gamma-Rays Shielding Materials"**, Nuclear Engineering and Design, 280, pp. 21-26. **[Q2, IF = 1.869]**

24. Ruengsri, S., Insiripong, S., Sangwaranatee, N. and **Kaewkhao, J.,** 2015, **“Development of barium borosilicate glasses for radiation shielding materials using rice husk ash as a silica source”**, Progress in Nuclear Energy, 83, pp. 99-104. **[Q1, IF = 2.256]**

25. **Kaewkhao. J.,** Boonin, K., Yasaka, P. and Kim, H.J., 2015, **“Optical and luminescence characteristics of Eu3+ doped zinc bismuth borate (ZBB) glasses for red emitting device”**, Materials Research Bulletin, 71, pp. 37-41. **[Q2, IF = 4.641]**

26. Oros, C., Horprathum, M., Wisitsoraat, A., Srichaiyaperk, T., Samransuksamer, B., Limwichean, S., Eaimchai., P., Phokharatkul, D., Nuntawong, N., Chananonnawathorn, C., Patthanasettakul, V., Klamchuen, A., **Kaewkhao, J.,** Tuantranont, A. and Chindaudom, P., 2016, **“Ultra-sensitive NO2 Sensor based on Vertically Aligned SnO2 Nanorods Deposited by DC Reactive Magnetron Sputtering with Glancing Angle Deposition Technique”,** Sensor & Actuator: B Chemical, 223, pp. 936-945 **[Q1, IF = 7.460]**

27. Zaman, F., **Kaewkhao, J.,** Srisittipokakun, N., Wantana, N., Kim, H.J. and Rooh, G., 2016, **"Investigation of luminescence and laser transition of Dy3+ in Li2O-Gd2O3-Bi2O3-B2O3 glasses",** Optical Materials, 55, pp. 136-144. **[Q2, IF = 3.080]**

28. Zaman, F., **Kaewkhao, J.,** Rooh, G., Srisittipokakun, Kim, H.J., 2016, **"Optical and luminescence properties of Li2O-Gd2O3-MO-B2O3-Sm2O3 (MO=Bi2O3, BaO) glasses",** Journal of Alloys and Compounds, 676, pp. 275-285. **[Q1, IF = 5.316]**

29. Kaewnuam, E., Kim, H.J., Jayasankar, C.K., Chanthima, N. and **Kaewkhao. J**., 2016, **“The Photoluminescence, optical and physical properties of Sm3+-doped lithium yttrium borate glasses”,** Physics and Chemistry of Glasses: European Journal of Glass Science and Technology Part B, 57(2), pp.85-89. **[Q3, IF = 0.800]**

30. Lee, J.Y., Alenkov, V., Ali, L., Beyer, J., Bibi, R., Boiko, R.S., Boonin, K., Buzanov, O., Chanthima, N., Cheoun, M.K., Chernyak, D.M., Choi, J., Choi, S., Danevich, F.A., Djamal, M., Drung, D., Enss, C., Fleischmann, A., Gangapshev, A., Gastaldo, L., Gavriljuk, Y., Gezhaev, A., Gurentsov, V., Hahn, I.S., Jeon, E.J., Jo, H.S., Joo, H., **Kaewkhao, J.**, Kang, C.S., Kang, S.J., Kang, W.G., Karki, S., Kazalov, V., Khan, S., Khanbekov, N., Kim, G.B., Kim, H.J., Kim, H.L., Kim, H.O., Kim, I., Kim, J.H., Kim, K., Kim, S.K., Kim, S.R., Kim, S.Y., Kim, Y.D., Kim, Y.H., Kirdsiri, K., Ko, Y.J., Kobychev, V.V., Kornoukhov, V. Kuzminov, V., Lee, H.J., Lee, H.S., Lee, J.H., Lee, J.M., Lee, K.B., Lee, M.H., Lee, M.K., Leonard, D.S., Li, J., Li, J., Li, Y.J., Limkitjaroenporn, P., Ma, K.J., Mineev, O., Mokina, V.M., Olsen, S. Panasenko, S., Pandey, I., Park, H.K., Park, H.S., Park, K.S., Poda, D.V., Polischuk, O.G., Polozov, P., Prihtiadi, H., Ratkevich, S., Ra, S.J., Rooh, G., So, G.H., Srisittipokakun, N., Tekueva, J., Tretyak, V.I., Veresnikova, A., Wirawan, R., Yakimenko, S., Yershov, N., Yoon, W.S., Yoon, Y.S., and Yue**,** Q., 2016 **"A Study of Radioactive Contamination of 40Ca100MoO4 Crystals for the AMoRE Experiment",** IEEE Transaction on Nuclear Science, 63 (2), 543-547. **[Q2, IF = 1.794]**

31. Kesavulu, C.R., Kim, H.J., Lee, S.W., **Kaewkhao, J.**, Wantana, N., Kothan, S. and Kaewjaeng, S., 2016, **"Influence of Er3+ ion concentration on optical and photoluminescence properties of Er3+-doped gadolinium-calcium silica borate glasses"**, Journal of Alloys and Compounds, 683, pp. 590-598. **[Q1, IF = 5.316]**

32. Rajagukguk, J., **Kaewkhao, J.**, Djamal, M., Hidayat, R., Suprijadi, Ruangtaweep, Y., 2016 **"Structural and optical characteristics of Eu3+ ions in sodium-lead-zinc-lithium-borate glass system",** Journal of Molecular Structure, 1121, pp. 180-187. **[Q3, IF = 3.196]**

33. **Kaewkhao, J.**, Wantana, N, Kaewjaeng, S., Kothan, S. and Kim, H.J., 2016, **"Luminescence Characteristics of Dy3+ Doped Gd2O3-CaO-SiO2-B2O3 Scintillating Glasses"** Journal of Rare Earth, 34 (6), pp. 583-589. **[Q2, IF = 3.712]**

34. Park, J.M., Ha, D.H., Kaewjeang, S, Maghanem, U., Kothan, S., **Kaewhkao, J.** and Kim, H.J., 2016, **"Luminescence Properties of Ce3+ doped Gadolinium-Calcium-Silicaborate Glass Scintillator",** Radiation Measurement, 90, 166-169. **[Q1, IF = 1.898]**

35. Chaiphaksa, W., Limkitjaroenporn, P., Kim, H.J. and **Kaewkhao, J.,** 2016, **“The mass attenuation coefficients, effective atomic numbers and effective electron densities for GAGG:Ce and CaMoO4 scintillators”**, Progress in Nuclear Energy, 92, pp. 48-53. **[Q1, IF = 2.256]**

36. **Kaewkhao, J.,** Limkitjaroenporn, P., Chaiphaksa, W., Kim, H.J., 2016, **“Non-Proportionality Study of CaMoO4 and GAGG:Ce Scintillation Crystals using Compton Coincidence Technique”,** Applied Radiation and Isotopes, 115, pp.221-226. **[Q2, IF = 1.513]**

37. Singh, V.P., Badiger, N.M., Kothan, S., Kaewjang, S, Korkut, T., Kim, H.J. and **Kaewkhao, J.**, 2016, **"Gamma-Ray and Neutron Shielding Efficiency of Pb-free Gadolinium Based Glasses"** Nuclear Science and Techniques, 27, 103.**[Q2, IF = 1.710]**

38.Shamshad, L., Rooh, G., Kirdsiri, K., Srisittipokakun, N., Kim, H.J., **Kaewkhao, J**., 2016,**“Development of Li2O-SrO-GdF3-B2O3 oxyfluoride glass for white light LED application”,** Journal of Molecular Structure, 1125, pp. 601-608. **[Q3, IF = 3.196]**

39.Zaman, F., Rooh, G., Srisittipokakun, N., Ruengsri, S., Kim, H.J., and **Kaewkhao, J.**, 2016, **“Luminescence behavior of Nd3+-activated soda-lime-borate glasses for solid-state lasers applications”**, Journal of Non-Crystalline Solids, 452, pp. 307-311. **[Q1, IF = 3.531]**

40. Kirdsiri, K., **Kaewkhao, J.**, Park, J.M. and Ha, D.H., 2016, **"** **Scintillation and Luminescence Properties of Sm3+-Activated Lu2O3- CaO-SiO2- B2O3 (LuCSB) Scintillating Glasses",** Journal of Korean Physical Society, 69 (6), 1094-1097. **[Q4, IF = 0.560]**

41. Park, J.M., Ha D.H., Lee, S.W., Chanthima, N., Ruangtaweep, Y. and **Kaewkhao, J.**, 2016, **"Luminescence Properties of Dy3+ doped Lanthanum-Calcium-Silicaborate Glass Scintillator",** Journal of Korean Physical Society 69 (6), 1105-1109. **[Q4, IF = 0.560]**

42. Zaman, F., Rooh, G., Srisittipokakun, N., Kim, H.J., Kaewnuam, E., Meejitpaisan, P., and **Kaewkhao, J.**, 2017 **“Scintillation and luminescence characteristics of Ce3+ doped in Li2O-Gd2O3-BaO-B2O3 scintillating glasses”**, Radiation Physics and Chemistry, 130, pp. 158-163. **[Q1, IF = 2.858]**

43. Wantana, N., Kaewjaeng , S., Kothan, S., Kim, H.J. and **Kaewkhao, J.,** 2017, **“Energy transfer from Gd3+ to Sm3+ and luminescence characteristics of CaO–Gd2O3–SiO2–B2O3 scintillating glasses”**, Journal of Luminescence, 181, pp. 382-386. **[Q1, IF = 3.599]**

44. Kesavulu, C.R., Kim, H.J., Lee, S.W., **Kaewkhao, J.**, Wantana, N., Kaewnuam, E., Kothan, S. and Kaewjaeng, S., 2017, **"Spectroscopic investigations of Nd3+ doped gadolinium calcium silica borate glasses for the NIR emission at 1059 nm"**, Journal of Alloys and Compounds, 695, pp. 590-598. **[Q1, IF = 5.316]**

45. Shamshad, L., Rooh, G., Kirdsiri, K., Srisittipokakun, N., Damdee, B., Kim, H.J., and **Kaewkhao., J.**, 2017, **"Photoluminescence and white light generation behavior of lithium gadolinium silicoborate glasses"**, Journal of Alloys and Compounds, 695, pp. 2347-2355. **[Q1, IF = 5.316]**

46. Shamshad, L., Rooh, G., Kirdsiri, K., Srisittipokakun, N., Damdee, B., Kim, H.J., and **Kaewkhao., J.**, 2017, **"Effect of alkaline earth oxides on the physical and spectroscopic properties of Dy3+- doped Li2O-B2O3 glasses for white emitting material application",** Optical Materials, 64, 268-275.  **[Q2, IF = 3.080]**

47. Shamshad, L., Rooh, G., Limkitjaroenporn, P., Srisittipokakul, N., Chaiphaksa, W., Kim, H.J. and **Kaewkhao, J., 2017, "A comparative study of gadolinium based oxide and oxyfluoride glasses as low energy radiation shielding materials",** Progress in Nuclear Energy, 97, pp. 53-59. **[Q1, IF = 2.256]**

48. Kesavulu, C.R., Kim, H.J., Lee, S.W., **Kaewkhao, J.**, Wantana, N. and Kaewnuam, E., 2017, **"Luminescence properties and energy transfer from Gd3+ to Tb3+ ions in gadolinium calcium silicaborate glasses for green laser application"**, Journal of Alloys and Compounds, 704, pp. 557-564. **[Q1, IF = 5.316]**

49. Luewarasirikul, N., Kim, H.J., Meejitpaisan, P. and **Kaewkhao, J.**, 2017, **"White light emission of dysprosium doped lanthanum calcium phosphate oxide and oxyfluoride glasses"**, Optical Materials, 66, pp. 559-566. **[Q2, IF = 3.080]**

50. Chanthima, N., **Kaewkhao, J.**, Tariwong, Y. and Sangwaranatee, N., 2017, **"Effect of Nd3+ ions on the properties of calcium and strontium barium phosphate glasses"**, Integrated Ferroelectric, 177, pp. 30-38. **[Q4, IF = 0.557]**

51. Ruengsri, S., Insiripong, S., Sangwaranatee N., Kim H.J., Wantana N., Angnanon A., and **Kaewkhao, J.**, 2017, **"** **Development of Dy3+-doped Gd2MoB2O9 phosphor and their luminescence behavior"**, Integrated Ferroelectric, 177, pp. 39-47. **[Q4, IF = 0.557]**

52. Ruengsri, S., **Kaewkhao, J.**, Limkitjaroenporn, P., Meejitpaisan, P., Hongtong W. and Chewasukhanont W., 2017, **"** **Development of gadolinium calcium phosphate oxyfluoride glass for radiation shielding materials"**, Integrated Ferroelectric, 177, pp. 48-58. **[Q4, IF = 0.557]**

53. Kaewnuam, E., Kim, H.J. and **Kaewkhao, J.**, 2017, **"Development of lithium yttrium borate glass doped with Dy3+ for laser medium, W-LEDs and scintillation materials applications"**, Journal of Non-Crystalline Solids, 464, pp 96-103. **[Q1, IF = 3.531]**

54. Meejitpaisan, P., Insiripong, S., Kedkaew, C., Kim, H.J. and **Kaewkhao, J.**, 2017, **"Radioluminescence and optical studies of gadolinium calcium phosphate oxyfluoride glasses doped with Sm3+"**, Radiation Physics and Chemistry, 137, pp. 62-67. **[Q1, IF = 2.858]**

55. Chanthima, N., **Kaewkhao, J.,** Limkitjaroenporn, P., Tuscharoen, S.,Kothan, S., Tungjai, M., Kaewjaeng, S. Sarachai, S., LimsuwanP., 2017, **"Development of BaO-ZnO-B2O3 glasses as a radiation shielding material"**, Radiation Physics and Chemistry, 137, pp. 72-77. **[Q1, IF = 2.858]**

56. Manasa, P., Ramachari, D., **Kaewkhao, J.**, Meejitpaisan, P., Kaewnuam, E., Joshi, A.S. and Jayasankar, C.K., 2017, **"Studies of radiative and mechanical properties of Nd3+ doped lead fluorosilicate glasses for broadband amplification in a chirped pulse amplifcation based high power laser system"**, Journal of Luminescence, 188, pp. 558-566. **[Q1, IF = 3.599]**

57. Kesavulu, C.R., Kim, H.J., Lee, S.W., **Kaewkhao, J.**, Chanthima, N. and Tariwong, Y., 2017, **"** **Physical, vibrational, optical and luminescence investigations of Dy3+-doped yttrium calcium silicoborate glasses for cool white LED applications"**, Journal of Alloys and Compounds, 726, pp. 1062-1071. **[Q1, IF = 5.316]**

58. Kesavulu, C.R., Kim, H.J., Lee, S.W., **Kaewkhao, J.**, Wantana, N., Kothan S., and Kaewjaeng S., 2017, **"Optical spectroscopy and emission properties of Ho3+-doped gadolinium calcium silicoborate glasses for visible luminescent device applications"**, Journal of Non-Crystalline Solids, 474, pp. 50-57. **[Q1, IF = 3.531]**

59. Srisittipokakun, N., Ruangtaweep, Y., Rachniyom, W., Boonin, K. and  **Kaewkhao, J.**, 2017, **"CuO, MnO2 and Fe2O3 doped biomass ash as silica source for glass production in Thailand"**, Results in Physics, 7, pp. – 3449-2454**. [Q1, IF =4.476]**

60. Kaewnuam, E., **Kaewkhao, J.**, Wantana, N., Klysubun, W., Kim H.J. and Sangwaranatee, N., 2017, **"Comparative study of Sm3+ doped in Li2O3 - RE2O3 - B2O3 (RE = Y/La) glasses system for laser medium application"**, Results in Physics, 7, pp. 2698-2703.  **[Q1, IF =4.476]**

61. **Kaewkhao, J.**, Korkut, T., Korkut, H., Aygün, B., Yasaka, P., Tuscharoen, C., Insiripong, C., and Karabulut, C., 2017, **"Monte Carlo Design and Experiments on the Neutron Shielding Performances of B2O3–ZnO–Bi2O3 Glass System"**, Glass Physics and Chemistry, 43 (6), 537-540. **[Q4, IF = 0.900]**

62. Park, J.M., Kim H.J., Karki, S., **Kaewkhao, J.**, Damdee, B., Kothan, S., Kaewjaeng, S., 2017, **"Optical Properties in the Visible Luminescence of SiO2:B2O3:CaO:GdF3 Glass Scintillators Containing CeF3",** Journal of Korean Physical Society 71 (11), 785-789. **[Q4, IF = 0.560]**

63. Wantana, N, Kaewnuam, E., Damdee, B, Kaewjaeng, S., Kothan, S., Kim, H.J., and **Kaewkhao, J.** 2018, **"Energy Transfer Based Emission Analysis of Eu3+ Doped Gd2O3-CaO-SiO2- B2O3 Glasses for Laser and X-Rays Detection Material Applications"** Journal of Luminescence, 194, pp. 75-81.  **[Q1, IF = 3.599]**

64. Yuliantini, L., Hidayat, R., Djamal, M., Boonin, K., Yasaka, P., Kaewnuam, E., **Kaewkhao, J.,** 2018 **"Development of Sm3+ doped ZnO-Al2O3-BaO-B2O3 glasses for optical gain medium",** Journal of Non-Crystalline Solids, 482, pp. 86-92.  **[Q1, IF = 3.531]**

65. Karki, S., Kesavulu, C.R., Kim, H.J., **Kaewkhao, J.**, Chanthima, Ruangtaweep, Y., 2018, **"Physical, optical and luminescence properties of B2O3-SiO2-Y2O3-CaO glasses with Sm3+ions for visible laser applications"**, Journal of Luminescence, 197, pp. 76-82. **[Q1, IF = 3.599]**

66. Kirdsiri, K.,Raja Ramakrishna, R, Damdee, B., Kim, H.J., Kaewjaeng, S., Kothan, S., **Kaewkhao, J.**, 2018, **"Investigations of optical and luminescence features of Sm3+ doped Li2O-MO-B2O3 (M = Mg/Ca/Sr/Ba) glasses mixed with different modifier oxides as an orange light emitting phosphor for WLED's"**, Journal of Alloys and Compounds, 749, pp. 197-204. **[Q1, IF = 5.316]**

67. Aryal, P., Kesavulu, C.R., Kim, H.J., Lee, S.W., Kang, S.J., Kaewkhao, J., Chanthima, Damdee, B., 2018, **"Optical and luminescence characteristics of Eu3+-doped B2O3:SiO2:Y2O3:CaO glasses for visible red laser and scintillation material applications",** Journal of Rare Earth, 36, 482-491. **[[Q2, IF = 3.712]**

68. Zaman, F., Rooh, G., Srisittipokakun, Wongdeeying, C., Kim, H.J., **Kaewkhao, J.,** 2018, **"Physical, structural and luminescence investigation of Eu3+-doped lithium-gadolinium bismuth-borate glasses for LEDs"**, Solid State Science, 80, pp. 161-169. **[Q2, IF = 3.059]**

 69. Shamshad, L., Ali, N., Ataullah, **Kaewkhao, J.**, Rooh, G., Ahmed, T., Zaman, F., 2018, **"Luminescence characterization of Sm3+-doped sodium potassium borate glasses for laser application"** Journal of Alloys and Compounds, 766, pp. 828-840. **[Q1, IF = 5.316]**

70.Khan, I., Rooh, G., Rajaramakrishna, R., Sirsittipokakun, N., Kim, H.J., Wongdeeying, C., **Kaewkhao, J.**, 2018, **"Development of Eu3+ doped Li2O-BaO-GdF3-SiO2 oxyfluoride glass for efficient energy transfer from Gd3+ to Eu3+ in red emission solid state device application"**, Journal of Luminescence, 203, pp.515-524. **[Q1, IF = 3.599]**

71. Yuliantini, L., Kaewnuam, E., Hidayat, R., Djamal, R., Boonin, K., Yasaka, P., Wongdeeying, C., Kiwsakunkran, N., **Kaewkhao, J.**, 2018, **"Yellow and blue emission from BaO-(ZnO/ZnF2)-B2O3-TeO2 glasses doped with Dy3+ for laser medium and scintillation material application"**, Optical Materials, 85, pp. 382- 390. **[Q2, IF = 3.080]**

72. Kang, S.C., Kim, H.J., Cho, J.Y., Kim, G.S., Aryal, P., Khan, A., Kang, S. J., **Kaewkhao, J.**, Park, J.M., Kim, M.J., 2018, **"Scintillation Properties of Ce3+ Doped Silicon-Magnesium-Aluminum-Lithium Glass Scintillators by using Radiation Sources"**, Journal of Korean Physical Society, 73(8), pp. 1174-1179. **[Q4, IF = 0.560]**

73. Wantana, N, Kaewnuam, E., Chanthima, N., Kaewjaeng, S., Kim, H.J., **Kaewkhao, J.**, 2018, **"** **Ce3+ doped glass for radiation detection material"**, Ceramics International, 44, pp. S172-S176. **[Q1, IF = 4.527]**

74. Khan, I., Rooh, G., Rajaramakrishna, R., Sirsittipokakun, N. Wongdeeying, C., Kiwsakunkran, N., Wantana, N., Kim, H.J., **Kaewkhao, J.**, Tuscharoen, S., 2019, **"** **Photoluminescence and white light generation of Dy2O3 doped Li2O- BaO-Gd2O3- SiO2 for white light LED"**, Journal of Alloys and Compounds, 774, pp.244-254. **[Q1, IF = 5.316]**

75. Khan, I., Rooh, G., Rajaramakrishna, R., Sirsittipokakun, N., Kim, H.J., **Kaewkhao, J.**, Kirdsiri, K., 2019, **"Energy transfer phenomenon of Gd3+ to excited ground state of Eu3+ ions in Li2O-BaO-Gd2O3-SiO2-Eu2O3 glasses"**, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 210, pp. 21-29. **[Q1, IF = 4.098]**

76. Shoaib, M., Rooh, G., Chanthima, N., Rajaramakrishna, R., Kim, H.J., Wongdeeying, C., **Kaewkhao, J.**, 2019, **"Intriguing energy transfer mechanism in Oxide and Oxy-fluoride phosphate glasses"**, Optical Materials, 88, pp. 429-444. **[Q2, IF = 3.080]**

77. Rao, V.R., Devi, L.L., Jayasankar, C.K., Pecharapa, W., **Kaewkhao , J.**, Depuru, S.R., 2019**, "Luminescence and energy transfer studies of Ce3+/Dy3+ doped fluorophosphate glasses"** Journal of Luminescence, 208, pp. 89-98 **[Q1, IF = 3.599]**

78. Kim, M.J., Kim, H.J., Cho, J.Y., Kaewjaeng, S., **Kaewkhao, J.**, **"Crystal Growth and Scintillation Properties of YAG:Ce3+ for γ and α Detection"**, 2019, Applied Radiation and Isotope, 145, pp. 126-130. **[Q2, IF = 1.513]**

79. Zaman, F., Rooh, G., Srisittipokakun, Ahmad, T., Khan , I., Shoaib, M., Ataullah, Rajagukguk, J., **Kaewkhao, J.**, 2019, **"Comparative investigations of gadolinium based borate glasses doped with Dy3+ for white light generations"**, Solid State Science, 89, pp. 50-56. **[Q2, IF = 3.059]**

80. Kirdsiri, K., Rajaramakrishna, R., Damdee, B, Kim, H,J., Nuntawong, N., Horphathum, **Kaewkhao, J.**, 2019, **"Influence of alkaline earth oxides on Eu3+ doped lithium borate glasses for photonic, laser and radiation detection material applications"**, Solid State Science, 89, pp. 50-56. **[Q2, IF = 3.059]**

81. Khan, I., Rooh, G., Rajaramakrishna, R., Sirsittipokakun, N., Kim, H.J., Kirdsiri, K., **Kaewkhao, J.**, 2019, **"Luminescence characteristics of Sm3+-doped lithium barium gadolinium silicate glasses for Orange LED's"**, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 214, pp. 14-20. **[Q1, IF = 4.098]**

82. Zaman, F., Khan, I., Khattak, S.A., **Kaewkhao, J.**, Ataullah, Shoaib, M., Shah, A.,

Rooh, G., 2019, **"Comparative investigations of gadolinium based borate glasses doped with Dy3+ for white light generations"**, Solid State Science, 90, pp. 68-75. **[Q2, IF = 3.059]**

83. Shoaib, M., Rooh, G., Rajaramakrishna, R., Chanthima, N., Kiwsakunkran, N., Kim, H.J., **Kaewkhao, J.**, Tuscharoen, S., 2019, **"Comparative study of Sm3+ ions doped phosphate based oxide and oxy-fluoride glasses for solid state lighting applications "**, Journal of Rare Earth, 37, pp. 374-382. **[Q2, IF = 3.712]**

84. Kaewjaeng, S., Kothan, S., Chaiphaksa, W., Chanthima, N., Rajaramakrishna, R., Kim, H.J., **Kaewkhao, J.**, 2019, **"** **High transparency La2O3-CaO-B2O3-SiO2 glass for diagnosis x-rays shielding material application"**, Radiation Physics and Chemistry, 160, pp. 41-47 **[Q1, IF = 2.858]**

85. Shoaib, M., Rooh, G., Rajaramakrishna, R., Chanthima, N., Kim, H.J., Tuscharoen, S., **Kaewkhao, J.**, 2019, **"Physical and luminescence properties of samarium doped oxide and oxyfluoride phosphate glasses"**, Materials Chemistry Physics, 229, pp. 514-522. **[Q2, IF = 4.094]**

86. Joseph Daniel, D., Kim, H.J., Kim, S., Kothan, S., **Kaewkhao, J.**, 2019, **"Trap level analysis of Ce3+ and Sm3+ in Li6Y(BO3)3"**, Ceramics International, 45, pp. 11893-11898.  **[Q1, IF = 4.527]**

87. Rajaramakrishna, R., Wongdeeying, C., Yasaka, P., Limkitjaroenporn, P., **Kaewkhao, J.**, 2019, **"Spectral analysis of Ho3+ doped barium zinc boro-tellurite glasses for yellow-green luminescent applications** **"**, Glass Physics and Chemistry, 45 (1), pp. 29-35. **[Q4, IF = 0.900]**

88 Yuliantini, L., Djamal, M., Hidayat, R., Boonin, K., Yasaka, P., Kaewnuam, E., Venkatramu, V., **Kaewkhao, J.,** 2019 **"Optical and X-ray induced luminescence of Sm3+ ion doped borotellurite and fluoroborotellurite glasses: A comparative study",** Journal of Luminescence, 213, pp. 19-28. **[Q1, IF = 3.599]**

89. Wantana, N., Kaewnuam, E., Ruangtaweep, Y., Valiev, D., Stapanov, P., Yamanoi, K., Kim, H.J., **Kaewkhao, J.**, 2019, **"Radio, cathodo and photoluminescence investigations of high density WO3-Gd2O3-B2O3 glass doped with Tb3+"**, Radiation Physics and Chemistry, 164, Article number 108350 (pp. 1-7). **[Q1, IF = 2.858]**

90. Karki, S., Kesavulu, C.R., Kim, H.J., **Kaewkhao, J.**, Chanthima, N., Kothan. S., Kaewjaeng, S., 2019, **"Physical, optical and luminescence properties of the Dy3+ doped barium borophosphate glasses",** Journal of Non-Crystalline Solids, 521, Article number 119483 (pp. 1-7).  **[Q1, IF = 3.531]**

91. Rajaramakrishna, R. Ruangtaweep, Y., Sangwaranatee, N., Kaewkhao, J., 2019, **"1.5 μm luminescence enhancement of Er3+ by local field surface plasmon resonance of Ag nanoparticles in silicate glasses",** Journal of Non-Crystalline Solids, 521, Article number 119552.  **[Q1, IF = 3.531]**

92. Rajagukguk, J., Fitrilawati, Sinaga, B, **Kaewkhao, J.**, 2019, **"** **Structural and spectroscopic properties of Er3+ doped sodium lithium borate glasses"**, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 223, Article number 117342 (pp. 1-7). **[Q1, IF = 4.527]**

93. Khan, I., Shoaib, M., Rooh, G., **Kaewkhao, J.**, Khattak, G. Ahmad, T., Zaman, F., Ataullah, Tufail, M., 2019, **"Investigation of luminescence properties of Dy3+ doped LiF-Na2O-K2O-B2O3 glasses for white light generation"**, Journal of Alloys and Compounds, 805, pp. 896-903. **[Q1, IF = 5.316]**

94. Zaman, F., Srisittipokakun, N., Rooh, G., Khattaka, S.A., Singkiburin, N., Kim, H.J., Sangwaranatee, N, **Kaewkhao, J.**, 2019**, "Investigation of Li2O–Gd2O3–MO–B2O3–Nd2O3 (MO=Ba/Bi) glasses for laser applications by Judd–Oflet (J–O) theory"** Journal of Luminescence, 215, Article number 116639 (pp. 1-9) **[Q1, IF = 3.599]**

95. Khan, I., Rooh, G., Rajaramakrishna, R., Srisittipokakun, N., Kim, H.J., **Kaewkhao, J**., Ruangtaweep, Y., 2019, **"Photoluminescence Properties of Dy3+ Ion-Doped Li2O-PbO-Gd2O3-SiO2 Glasses for White Light Application"** Brazilian Journal of Physics, 9 (43), pp. 1-10. **[Q3, IF =1.326]**

96. Shoaib, M., Rooh, G., Chanthima, N, Kim, H.J., **Kaewkhao, J.**, 2019, **"** **Luminescence properties of Nd3+ ions doped P2O5-Li2O3-GdF3 glasses for laser applications"**, Optik, 199, Article number 63218. **[Q2, IF = 2.443]**

97. Ravangvong, S., Chanthima, N., Rajaramakrishna, R., Kim, H.J., Sangwaranatee, N., Kaewkhao, J., 2019, **"Dy3+ Ions doped (Na2O/NaF)-Gd2O3-P2O5 Glasses for Solid State Lighting Material Applications"**, Solid State Science, 97, Article number 105972. **[[Q2, IF = 3.059]**

98. Rajagukguk, J., Situmorang, S., Fitlirawali, Djamal, M., Rajaramakrishna, R., **Kaewkhao, J.**, Minh, P.H., **2019, "Structural, spectroscopic and optical gain of Nd3+ doped fluorophosphate glasses for solid state laser application"**, Journal of Luminescence, 216, Article number 116738. **[Q1, IF = 3.599]**

99. Khan, I., Rooh, G., Rajaramakrishna, R., Sirsittipokakun, N., Kim, H.J., **Kaewkhao, J.**, 2019, **"Energy transfer and spectroscopic investigation of Dy2O3 Doped Li2O–BaO–GdF3–SiO2 for White LED"**, Glass Physics and Chemistry, 45 (5), pp. 332-343. **[Q4, IF = 0.900]**

100. Alenkov, V, Bae, H.W., Beyer, J., Boiko, R.S., Boonin, K., Buzanov, O., Chanthima, N., Cheoun, M.K., Chernyak, D.M., Choe, J.S.,Choi, S., Danevich, F.A., Djamal, M., Drung, D.,

Enss, C., Fleischmann, A., Gangapshev, A.M., Gastaldo, L., Gavriljuk, Y.M., Gezhaev, A.M., Grigoryeva, V.D., Gurentsov, V.I., Gylova, O., Ha, C., Ha, D.H., Ha, E.J., Hahn, I.S., Jang, C.H., Jeon, E.J., Jeon, J.A., Jo, H.S., **Kaewkhao, J.**, Kang, C.S., Kang, S.J., Kang, W.G., Kazalov, V. V., Kempf, S., Khan, A., Khan, S., Kim, D.Y., Kim, G.W., Kim, H.B., Kim, H.J., Kim, H.L., Kim, H.S., Kim, I., Kim, S.C., Kim, S.G., Kim, S. K., Kim, S.R., Kim, W.T., Kim, Y.D., Kim, Y.H., Kirdsiri, K., Ko, Y.J., Kobychev, V. V., Kornoukhov, V., Kuzminov, V.V., Kwon, D.H., Lee, C., Lee, E.K., Lee, H.J., Lee, H.S., Lee, J.S., Lee, J.Y., Lee, K.B., Lee, M.H., Lee, M.K., Lee, S.W., Lee, S.W., Lee, S.H., Leonard, D., Li, J., Li, J., Li, Y., Limkitjaroenporn, P., Makarov, E.P., Oh, S.Y., Oh, Y.M., Olsen, S. L., Pabitra, A., Panasenko, S.I., Pandey, I., Park, C.W., Park, H.K., Park, H.S., Park, K.S., Park, S.Y., Poda, D.Y., Polischuk, O.G., Prihtiadi, H., Ra, S.J., Ratkevich, S.S., Rooh, G., Sari, M.B., Seo, K.M., Shin, J.W., Shin, K.A., Shlegel, V.N., Siyeon, K., So, J.H., Son, J.K., Srisittipokakun, N., Sujita, K., Tretyak, V.I., Wirawan, R., Woo, K.R., Yoon, Y.S., Yue, Q., Zaman, S.U., 2020, **"First results from the AMoRE-Pilot neutrinoless double beta decay experiment"**, The European Physics Journal C, 79, Article number 791. **[Q2, IF = 4.590]**

101. Al‐Hadeethi, Y., Sayyed, M.I., **Kaewkhao, J.**, Raffah, B.M., Almalki, R, Rajaramakrishna, R., 2019, **“An extensive investigation of physical, optical and radiation shielding properties for borate glasses modified with gadolinium oxide”,** Applied Physics A-Materials Science and Processing, 125, Article number 749  **[Q2, IF = 1.810]**

102. Sriwongsa, K., Limkitjaroenporn, P., Hongtong, W., Chaiphaksa, W. and **Kaewkhao, J.**, 2019, **“Non-Proportionality Electron Response and Energy Resolution of LaBr3:Ce and LuYAP:Ce Scintillating Crystals”,** Journal of Korean Physical Society, 75 (9), pp.672-677.  **[Q4, IF = 0.560]**

103. Yasaka, P., Rajaramakrishna, R., Wongwan, W., Yamchumporn, P., Kim. H.J., **Kaewkhao J.**, 2019, **“Development of ZnO–BaO–B2O3–TeO2 glass doped with Sm3+ for orange emitting material”**, Solid State Science, 98, Article number 106041. **[Q2, IF = 3.059]**

104. Al‐Hadeethi, Y., Sayyed, M.I., **Kaewkhao, J.**, Raffah, B.M., Almalki, Rajaramakrishna, R., 2019, **“Physical, structural, optical, and radiation shielding properties of B2O3–Gd2O3–Y2O3 glass system”,** Applied Physics A-Materials Science and Processing, 125, Article number 852  **[Q2, IF = 1.810]**

105. Khan, I., Rooh, G., Rajaramakrishna, R., Sirsittipokakun, N., Kim, H.J., Ruangtaweep, Y., **Kaewkhao, J.**, 2019, **"** **Spectroscopy Study of Sm3+ Doped Fluorosilicate Glasses for Orange Emission Solid-State Device Application"**, Glass Physics and Chemistry, 45 (6), pp. 447-458. **[Q4, IF = 0.900]**

106. Venugopal, A.R., Rajaramakrishna, R., Abhiram, J., Pattard, V., Rajashekara, K.M., and Kaewkhao, J., 2019, **"** **Sm3+ Doped Lithium Strontium Borate Glasses for Solid State Lighting Applications"**, Glass Physics and Chemistry, 45 (6), 472-484. **[Q4, IF = 0.900]**

107. Al‐Hadeethi, Y., Sayyed, M.I., **Kaewkhao, J.**, Askin, A., Raffah, B.M., Mkawi, E.M., Rajaramakrishna, R., 2020, **“Physical, optical properties and radiation shielding studies of xLa2O3-(100-x)B2O3 glass system”,** Ceramics International 46 (4), pp. 5380-5386. **[Q1, IF = 4.527]**

108. Ravangvong, S., Chanthima, N., Rajaramakrishna, R., Kim, H.J., **Kaewkhao, J.**, 2020, **"Effect of sodium oxide and sodium fluoride in gadolinium phosphate glasses doped with Eu2O3 content"**, Journal of Luminescence 219, Article Number 116950. **[Q1, IF = 3.599]**

109. Rao, V.R., Doddoji, R., Pecharapha, W., **Kaewkhao , J.**, Depuru, S.R., Jayasankar, C.K.**,** , 2020, **"Photoluminescence and energy transfer studies in Ce3+ and Sm3+ activated P2O5+K2O+Al2O3+BaF2+NaF glasses for solid state lighting"** Optical Materials, 99, Article Number 109576 **[Q2, IF = 3.080]**

110. Rajaramakrishna, R., Nijapai, P., Kidkhunthod, P., Kim, H.J., **Kaewkhao, J.**, Ruangtaweep. Y., 2020, **"Molecular dynamics simulation and luminescence properties of Eu3+ doped molybdenum gadolinium borate glasses for red emission"**, Journal of Alloys and Compounds, 813, Article number 151914. **[Q1, IF = 5.316]**

111. Wantana, N., Ruangtaweep, Y., Kaewnuam, E., Kang, S.C., Kim. H.J., Kothan. S., **Kaewkhao, J.,** 2020, **“Development of WO3-Gd2O­3-B2O3 high density glasses doped with Dy3+ for photonics and scintillation materials application”,** Solid State Science, 101, Article number 106135. **[Q2, IF = 3.059]**

112. Rajaramakrishna, R., Ruangtaweep, Y., Sattayaporn, S., Kidkhunthod, P., Kothan S., **Kaewkhao, J**., 2020, **"Structural analysis and luminescence studies of Ce3+/Dy3+ co-doped calcium zinc gadolinium borate glasses using EXAFS"**, Radiation Physics and Chemistry, 171, Article number 108965. **[Q1, IF = 2.858]**

113. Intom, S., Kalkornsurapranee, E., Johns, J., Kaewjaeng S., Kothan, S., Hongtong, W., Chaiphaksa, W., **Kaewkhao, J**., 2020, **" Mechanical and radiation shielding properties of flexible material based on T natural rubber/ Bi2O3 composites"**, Radiation Physics and Chemistry, 172, Article number 108772. **[Q1, IF = 2.858]**

114. Cheewasukhanont, W., Limkitjoroenporn, P., Kothan, S., Kedkaew, C., **Kaewkhao, J**., 2020, **"The effect of particle size on radiation shielding properties for bismuth borosilicate glass"**, Radiation Physics and Chemistry, 172, Article number 108791. **[Q1, IF = 2.858]**

115. Khan, I., Rooh., G., Rajaramakrishna, R., Srisittipokakun, S., Kim, H.J., Kothan, S., **Kaewkhao, J.,** Kirdsiri, K., 2020, **"Comparative study of optical and luminescence properties of Sm3+-ions doped Li2O–Gd2O3–PbO–SiO2 and Li2O-GdF3-PbO–SiO2 glasses for orange emission solid state device application"**, Journal of Luminescence, 222, Article number 117136. **[Q1, IF = 3.599]**

116. Jagannathan, A., Rajaramakrishna, R. Rajashekara, K.M.., Gangareddy, J.M., Pattar K, V., Rao S, V., Eraiah, B., Angadi V, J., **Kaewkhao, J.**, Kothan, S., 2020, **"** **Investigations on nonlinear optical properties of gold nanoparticles doped T fluoroborate glasses for optical limiting applications",** Journal of Non-Crystalline Solids, 538, Article number 120010.  **[Q1, IF = 3.531]**

117. Wantana, N., Kaewnuam, E., Ruangtaweep, Y., Kidkhunthod, P., Kim. H.J., Kothan. S., **Kaewkhao, J.,** 2020, **“High density tungsten gadolinium borate glasses doped with Eu3+ ion for photonic and scintillator application”,** Radiation Physics and Chemistry, 172, Article number 108868. **[Q1, IF = 2.858]**

118. Posopa, N., Sakulkalavek, A., Chanlek, N., **Kaewkhao, J.**, Sakdanuphap, R.,2020, **“Room-temperature rapid synthesis of CuI thin films via liquid iodination method”,** Superlattices and Microstructures, 141, Article number 106501. **[Q3, IF = 2.658]**

119. Sangwaranatee, N., Yasaka, P., Rajaramakrishna, R., Kothan, S., **Kaewkhao, J.**, 2020, **“Photoluminescence properties and energy transfer investigations of Gd3+ and Sm3+ co-doped ZnO–BaO–TeO2 glasses for solid state laser application”,** Journal of Luminescence,224, Article Number 117275. **[Q1, IF = 3.599]**

120. Rajaramakrishna, R., Ruangtaweep, Y., Saiyasombat, C., K**aewkhao, J.**, 2020, **“Effect of SnO2/SeO2 on Au nano-particles doped silicate glasses: a structural study using XAS and EXAFS refinements”,** Optical and Quantum Electronics, 52, Article Number 244. **[Q3, IF = 2.084]**

121. Ahmad, Z, Ali, S., Ahmad, H., Hayat, K., Iqbal, Y., Zulfiqar, F., Zaman, F., Rooh, G., **Kaewkhao, J.**, 2020, **“RADIO-OPTICAL response of cerium-doped lithium gadolinium bismuth borate glasses”,** Journal of Luminescence,224, Article Number 117341. **[Q1, IF = 3.599]**

122. Rajaramakrishna, R., Kaewjaeng, S., **Kaewkhao, J.**, Kothan, S., 2020, **"Investigation of XANES study and energy transport phenomenon of Gd3+ to Ce3+ in CaO–SiO2–B2O3 glasses",** Optical Materials, 102, Article Number 109826 **[Q2, IF = 3.080]**

123. Saha, S., Kim, H.J., Khan, A., Daniel , D.J., Absar, R., Barman, R., Aryal, P., **Kaewkhao, J.**, Kothan, S., 2020, **"** **Luminescence and Scintillation Properties of Dy3+ doped Li6Y(BO3)3 crystal",** Optical Materials, 102, Article Number 109826 **[Q2, IF = 3.080]**

124. Saha, S., Kim, H.J., Aryal, P., Tyagi, M., Barman, R., **Kaewhkao, J.** Kothan, S., Kaewjaeng,S., 2020, **"** **Synthesis and characterization of borate glasses for thermal neutron scintillation and imaging",** Radiation Measurement, 134, Article Number 106319 **[Q1, IF = 1.898]**

125. Ullah, I., Shah, S.K., Rooh, G., Srisittipokakun, N., Khan, A., Kaewkhao, J., Kim, H.J., Kothan, S., 2020,**“Spectroscopic study and energy transfer behavior of Gd3+ to Dy3+ for Li2O–MgO-Gd2O3–B2O3 glasses for white emission material”,** Journal of Luminescence,226, Article Number 117380. **[Q1, IF = 3.599]**

126. Aryal, P., Khan, A., Kim, H.J., Vuong, P., K**aewkhao, J.**, Kothan, S., Kaewjaeng, S., 2020 **"Development of Tin-based Single Crystal Scintillator for Double-beta Decay Experiments",** IEEE Transaction on Nuclear Science, 67 (6), pp. 922-926. **[Q2, IF = 1.794]**

127. Kolavekar, S.B., Ayachit, N.H., Rajaramakrishna, R., Pramod N G, **Kaewkhao, J.**,

.2020,**“** **Reddish-orange emission and Judd-Ofelt investigation of Sm3+ ions doped in zinc-bismuth-phospho-tellurite glasses for solid lighting application”,** Journal of Luminescence,226, Article Number 117498. **[Q1, IF = 3.599]**

128. Djamal, M., Yuliantini, L., Hidayat, R., Rauf, N.,Horprathum, M., Rajaramakrishna, R., Boonin, K., Yasaka, P., **Kaewkhao, J.,** Venkatramu, V., Kothan, S., 2020, **"Spectroscopy study of Nd3+ ion-doped Zn-Al-Ba borate glasses for NIR emitting device application",** Optical Materials, 107, Article Number 110018. **[Q2, IF = 3.080]**

129. Aryal., P., Kim, H.J., Khan, A., Saha, Kang, S.J., Kothan, S., Yamsuk., **Kaewkhao, J.**,

.2020,**“Development of Eu3+-doped phosphate glass for red luminescent solid-state optical devices”,** Journal of Luminescence,227, Article Number 117564. **[Q1, IF = 3.599]**

130. Angnanon, A., Rajaramakrishna, R.,Srisittipokakun, N., Damdee, B., **Kaewkhao, J.,** 2020,"Novel plaster waste glass for solid state lighting applications"**,** Optical Materials, 109, Article Number 110180. **[Q2, IF = 3.080]**

131. Wantana, N., Kaewnuam, E., Kim. H.J. Kang, S.C., Ruangtaweep, Y., Kothan. S., **Kaewkhao, J.,** 2020, **“X-ray/proton and photoluminescence behaviors of Sm3+ doped high- density tungsten gadolinium borate scintillating glass”,** Journal of Alloys and Compounds, 849, Article number 156574. **[Q1, IF = 5.316]**

132. Tariwong, Y., Chanthima, N., Rajaramakrishna, R., Kim, H.J., **Kaewkhao, J.,** 2020, **"X-ray induced luminescence, optical, compositional and structural investigations of natural and imitation rubies: Identification technique"**, Radiation Physics and Chemistry, 177, Article Number 109089. **[Q1, IF = 2.858]**

133. Shoaib, M., Rajaramakrishna, R., Rooh, G., Chanthima, N., Kim, H.J., Saiyasombat, C., Botta, R., Nuntawong, N., Kothan, S., **Kaewkhao, J.**, 2020, **"Structural and Luminescence Study of Dy3+ Doped Phosphate Glasses for Solid State Lighting Applications"**, Optical Materials, 109, Article Number 110322. **[Q2, IF = 3.080]**

134. Boonin, K., Yasaka, P., Limkitjaroenporn, P., Rajaramakrishna, R., Askin, A., Sayyed, M.I., Kothan, S., **Kaewkhao, J.**, 2020, **"Effect of BaO on Lead Free Zinc Barium Tellurite Glass for Radiation Shielding Materials in Nuclear Application"**, Journal of Non-Crystalline Solids, 550, Article Number 120386. **[Q1, IF = 3.531]**

135. Meejitpaisan, P., Doddoji, R., Kothan , S., Jayasankar, C.K., **Kaewkhao, J.,** 2021, **"Intense red emission via energy transfer from (Ce3+/Eu3+):P2O5+NaF+CaF2+AlF3 glasses for warm light sources"**, Ceramics International, 47, pp. 1962 – 1969. **[Q1, IF = 4.527]**

**136.** Ullah, I., Khan, I., Shah, S.K., Khan, A., Khattak, S.A., Shoaib. M., **Kaewkhao, J.,** Ahmad, T., Ahmed, E., Rooh, G., , 2021, “**Luminescence Properties of Sm3+ Doped Na2B4O7 Glasses for lighting application”,** Journal of Luminescence, 230, Article Number 117700 **[Q1, IF = 3.599]**

**137.** Kalkornsurapranee, E., Kothan, S., Intom, S., E., Johns, J., Kaewjaeng S., Kedkaew, C., Chaiphaksa, W., Sareein, T., **Kaewkhao, J**., 2021, **"Wearable and flexible radiation shielding natural rubber composites: Effect of different radiation shielding fillers"**, Radiation Physics and Chemistry, 179, Article number 109261. **[Q1, IF = 2.858]**

**138.**  Youwei, L., Yu, H., Ishimoto, T., Cadatal-Raduban, M., Kothan, S., Limkitjaroenporn, P., Shimizu, T., Sarukura, N., Kaewkhao, J., Yamanoi, K., 2021, **"Investigation of gamma-ray induced optical property changes in non-doped and Ce-doped lithium-rich oxide glass"**, Radiation Physics and Chemistry, 179, Article number 109272. **[Q1, IF = 2.858]**

139. Kalkornsurapranee, E., Intom, S., Lehman, N., Johns, J., Kothan, S., Sengloyluan, K., Chaiphaksa, W., **Kaewkhao, J**., 2021, **"Mechanical and gamma radiation shielding properties of natural rubber composites: effects of bismuth oxide (Bi2O3) and lead oxide (PbO)",** Materials Research Innovations, pp. 1-9. **[Q4, IF = 1.173]**

140. Venugopal, A.R., Rajaramakrishna, R., Rajashekara, K.M., Rajagukguk, J., Ayachit, N.H., Kothan, S., **Kaewkhao, J.**, 2021, **"Dy3+ doped B2O3 - Li­O - CaO CaF­2 glass for efficient white light emitting sources"**, Journal of Non-Crystalline Solids, 554, Article Number 120604. **[Q1, IF = 3.531]**

141. Wantana, N., Kaewnuam, E., Ruangtaweep, Y., Valiev, D., Stepanov, S., Yamanoi, K., Kim, H.J., Kothan, S., **Kaewkhao, J.**, 2021, **"** **Tunable orange, yellow and white emission of Pr -doped tungsten gadolinium borate glasses"**, Journal of Non-Crystalline Solids, 554, Article Number 120603. **[Q1, IF = 3.531]**

142. Shoaib, M., Rooh, G., Chanthima, N., Kim. H.J., Rajaramakrishna, Kothan, S., **Kaewkhao, J.**, Siengsanoh, K., 2020, **"The Physical, Optical, Photo and Radioluminescence Studies of Dy3+ Doped Zinc Barium Gadolinium Phosphate Glasses"**, Glass Physics and Chemistry, 46 (6), pp. 474-486. **[Q4, IF = 0.900]**

**143.** Ullah, I, Shah, S.K., Rooh, G., Khan, A., Boonpa, W.,Srisittipokakun, N., Kothan, S., Kim, H.J., **Kaewkhao, J.,** 2021, “**Gd3+/Sm3+ energy transfer behavior and spectroscopic study of lithium gadolinium magnesium borate for solid state lighting material”,** Optical Materials **,** Optical Materials, 111, Article Number 110657. **[Q2, IF = 3.080]**

144. Aryal, P., Kim. H.J. Saha, S., Cho, J., Ntarisa, A.V., Kothan. S., **Kaewkhao, J.,** 2021, **“Rapid and Convenient Crystallization of QuantumDot CsPbBr3 inside a Phosphate Glass Matrix”,** Journal of Alloys and Compounds, 866, Article Number 158974. **[Q1, IF = 5.316]**

145. Jagannathan, A., Gangareddy, J., Rajaramakrishna, R., Rajashekara, K.M., Rao S. V., , **Kaewkhao, J.**, Kothan, S., El-Denglawey, A., 2021, **"** **Precursor Based Tuning of the Nonlinear Optical Properties of Au-Ag Bimetallic Nanoparticles Doped in Oxy-fluoroborate Glasses",** Journal of Non-Crystalline Solids, 561, Article number 120766.  **[Q1, IF = 3.531]**

146. Rahayu, E.S., Rajaramakrishna, R., Djamal, M., **Kaewkhao, J.**, 2021, **"Spectroscopy Characterization of MWCNT Doped B2O3-Gd2O3-ZnO-Er2O3 Glass for NIR Solid State Application"**, Integrated Ferroelectric, 214, pp. 136-142. **[Q4, IF = 0.557]**

147. Rajagukguk, J., Ramahniar, Harahap, N., Situmorang, R., Panggabean, D.D., **Kaewkhao, J.**, 2021, **"Preparation and Structural Characterization of Dy3+-Doped PBiNaGd Glass"**, Integrated Ferroelectric, 214, pp. 151-157. **[Q4, IF = 0.557]**

148. Limkitjaroenporn, P., Chewasukhanont, W., Kothan, S., **Kaewkhao, J.**, 2021, **"Development of New High Transparency Pb-Free Radiation Shielding Glass"**, Integrated Ferroelectric, 214, pp. 181-204. **[Q4, IF = 0.557]**

149. Zaman, F., Srisittipokakun, N., Rooh, G., **Kaewkhao, J.**, Ullah, I., Rani, M., Kim, H.J., 2021, **"Development of Na2O-MO-Bi2O3-B2O3-Sm2O3 glasses (MO=Ba/Mg) for laser and scintillation application",** Journal of Non-Crystalline Solids, 561, Article number 120722.  **[Q1, IF = 3.531]**

**150.** Kaewjaeng, S., Boonpa, W., Khrongchaiyaphum, F., Kothan, S., Kim, H.J., Intachai, N., Rajaramakrishna, R., Kiatwattanacharoean, S., **Kaewkhao, J.**, 2021, **"Influence of Trivalent Praseodymium ion on SiO­­­2-B2O3- Al2O3- BaO-CaO-Sb­2O3-Na2O-Pr2O3 Glasses for X-Rays Shielding and Luminescence Materials"**, Radiation Physics and Chemistry, 184, article Number 109467 **[Q1, IF = 2.858]**

**151.** Wantana, N., Ruangtaweep, Y., Kaewnuam, E., Kothan, S., Kim, H.J., Prasatkhetragarn, A., **Kaewkhao, J.**, 2021, **"Strong emission from Ce3+ doped gadolinium oxyfluoroborate scintillation glasses matrix"**, Radiation Physics and Chemistry, 185, article Number 109497 **[Q1, IF = 2.858]**

152. Shoaib, M., Rooh, G., Chanthima, N., Sareein, T., Kim, H.J., Kothan, S., **Kaewkhao, J.**, 2021, **"Luminescence behavior of Nd3+ ions doped ZnO-BaO-(Gd2O3/GdF3)- P2O5 glasses for laser material applications"**, Journal of Luminescence, 236, Article Number 118139 **[Q1, IF = 3.599]**

153**.** Rajagukguk, J., Sarumaha, C.S., Chanthima, N., Wantana, N., Kothan, S., Wongdamnern, N., **Kaewkhao, J.**, 2021, **"Radio and Photo Luminescence of Dy3+ Doped Lithium Fluorophosphate Scintillating Glass"**, Radiation Physics and Chemistry, 185, article Number 109520 **[Q1, IF = 2.858]**

**154.** Kamonpha. P., Manyum, P., Chanthima, N., Tariwong, Y., Triamnak, N., Yimnirun, R., Rujirawat, S., Kitkhuntod, P., Kothan, S., Kim, H.J., **Kaewkhao, J.**, 2021, **"** **Structural and luminescence investigation of Ce3+ doped lithium barium gadolinium phosphate glass scintillator"**, Radiation Physics and Chemistry, 185, article Number 109488  **[Q1, IF = 2.858]**

**155.** Rittisut. W, Wantana. N, Butburee, A., Ruangtaweep, Y., Padchasri, J., Rujirawat, S., Manyum, P., Kitkhuntod, P., Yimnirun. R., Kothan, S., Kim, H.J., Prasatkhetragarn, A., **Kaewkhao, J.**, 2021, **"Luminescence properties of Ce3+- doped borate scintillating glass for new radiation detection material"**, Radiation Physics and Chemistry, 185 , article Number 109498 **[Q1, IF = 2.858]**

**156.** Yodkantee, D., Prasatkhetragarn, A., Chanthima, N., Tariwong, Y., Kothan, S., Rujirawat, S., Yimnirun, R., Kidkhunthod, P., Kim, H.J., Limsuwan, P., **Kaewkhao, J.**, 2021, **"Luminescence and physical properties of Ce3+-doped potassium gadolinium phosphate glasses for radiation detector application"**, Radiation Physics and Chemistry, 185, article Number 109496 **[Q1, IF = 2.858]**

157. Meejitpaisan, P., Doddoji, R., Kothan , S., Jayasankar, C.K., **Kaewkhao, J.,** 2021, **"Visible to infrared emission from (Eu3+/Nd3+):B2O3 + AlF3 + NaF + CaF2 glasses for luminescent solar converters"**, Optics and Laser Technology, 141, article Number 107170 **[Q1, IF = 3.867]**

158. Ataullah, Khan, I., Khattak, S., Shoaib, M., **Kaewkhao, J.,** Ullah, I., Rooh, G., 2021, **"Spectral Investigation of Lithium-Telluride based Glasses doped with Sm3+-Ions for lighting application",** Journal of Alloys and Compounds, 866, Article Number 160095. **[Q1, IF = 5.316]**

159. Kaewjaeng, S., Wanata, N., Kothan, S., Rajaramakrishna, R., Kim, H.J., Limsuwan, P., **Kaewkhao, J.**, 2021, **"Effect of Gd2O3 on the radiation shielding, physical, optical and luminescence behaviors of Gd2O3-La2O3-ZnO-B2O3-Dy2O3 glasses"**, Radiation Physics and Chemistry, 185, article Number 109500 **[Q1, IF = 2.858]**

160. Pasanta, D., Htun, K.T., Pan, J., Tungjai, M., Kaewjaeng, S., Kim, H.J., **Kaewkhao, J.**, Kothan, S., 2021, **"Magnetic Resonance Spectroscopy of Hepatic Fat from Fundamental to Clinical Applications"**, Diagnostics, 11, article Number 842, pp. 1-19 (Article Number 11050842) **[Q2, IF = 3.706]**

161. Yuliantini, L., Djamal, M., Hidayat, R., Boonin, K., Yasaka, P., Kothan, P., **Kaewkhao, J.,** 2021 **"** **IR emission of Er3+ ion-doped fluoroborotellurite glass for communication application",** Journal of Non-Crystalline Solids, 566, Article Number 120849.  **[Q1, IF = 3.531]**

162. Sangwaranatee, N., Cheewasukhanont, W., Limkitjaroenporn, P., Borisut, P.,

Wongdamnern, N., Khrongchaiyaphum, F., Kothan, S., **Kaewkhao, J.**, 2021, **"Development of Bismuth Alumino Borosilicate Glass for Radiation Shielding Material"**, Radiation Physics and Chemistry, 186, article Number 109542  **[Q1, IF = 2.858]**

163.Ntarisa, A.V., Saha, S., Aryal, P., Kim. H.J. khan, A., Quang, N.D., Pandey, I.R., **Kaewkhao, J.**, Kothan. S., 2021, **"Luminescence and scintillation properties of Ce3+ doped P2O5-Li2CO3-GdBr3-Al2O3 glasses",** Journal of Non-Crystalline Solids, 567, Article number 120914.  **[Q1, IF = 3.531]**

164. Ullah, I., Rooh, G., Khattak, S.A., Kothan, S., **Kaewkhao, J.**, Khan, I., 2021, **"Effective red-orange luminescence and energy transfer from Gd3+ to Eu3+ in lithium gadolinium magnesium borate for optical devices",** Journal of Non-Crystalline Solids, 569, Article number 120927.  **[Q1, IF = 3.531]**

165. Jomkaew, T, Chaiphaksa, W., Limkitjaroenporn, P., Kim, H.J., Kothan, S., Prasatkhetragarn, A., **Kaewkhao, J.**, 2021, **"Photon interaction and electron nonproportional response of CLYC scintillation material"**, Radiation Physics and Chemistry, 188, article Number 109565 **[Q1, IF = 2.858]**

166. Yonphan, S., Limkitjaroenporn, P., Borisut, P., Kothan, S., Wongdamnern, N.,

Alhuthali, A.M.S., Sayyed, M.I., Kaewkhao, J., 2021, **"The photon interactions and build-up factor for Gadolinium Sodium Borate glass: Theoretical and Experimental approaches"**, Radiation Physics and Chemistry, 188, article Number 109561 **[Q1, IF = 2.858]**

167. Limkitjaroenporn, P., Wongdamnern, N., Kothan, S., **Kaewkhao, J.**, 2021, **"Density measurement of multi-layered material using gamma-ray transmission technique"**, Radiation Physics and Chemistry, 188, article Number 109618 **[Q1, IF = 2.858]**

168. Kiwsakunkran, N., Chaiphaksa, W., Chanthima, N., Kim, H.J., Kothan, S., Prasatkhetragran, A., **Kaewkhao, J.,** 2021, **"Fabrication of K2O–Al2O3–Gd2O3–P2O5 glasses for photonic and scintillation materials applications"**, Radiation Physics and Chemistry, 188, article Number 109639 **[Q1, IF = 2.858]**

169. Zaman, F., Srisittipokakun, N., Rooh, G., Khattak, S.A., **Kaewkhao, J.,** Rani, M., Kim, H.J., 2021, “**Comparative study of Dy3+ doped borate glasses on the basis of luminescence and lasing properties for white-light generation”,** Optical Materials, 119, Article Number 111308. **[Q2, IF = 3.080]**

170. Htun, K.T., Pan, J., Pasanta, D., Tungjai, M., Udomtanakunchai, C., Chancharunee, C., Kaewjaeng, S., Kim, H.J., **Kaewkhao, J.**, Kothan, S., 2021, **"** **Identification of Metabolic Phenotypes in Young Adults with Obesity by 1H NMR Metabolomics of Blood Serum"**, Life, 11, article Number 574, pp. 1-18.(Article number l11060574 ) **[Q2, IF = 3.237]**

171. Pasanta, D., Htun, K.T., Pan, J., Tungjai, M., Kaewjaeng, S., Chancharunee, S., Tima, S., Kim, H.J., **Kaewkhao, J.**, Kothan, S., 2021, **"** **Waist Circumference and BMI Are Strongly Correlated with MRI-Derived Fat Compartments in Young Adults"**, Life, 11, article Number 574, pp. 1-18.(Article number 11070643 )**[Q2, IF = 3.237]**

172. Damdee, B., Kirdsiri, K., Kim, H.J., Yamanoi, K., Angnanon, A., Triamnak, N., Kothan, S., **Kaewkhao, J.,** 2021, **"** **Effect of Gd2O3 concentration on X-rays induced and photoluminescence characteristics of Eu3+ - Activated Gd2O3–B2O3 glass"**, Radiation Physics and Chemistry, 189, article Number 109681 **[Q1, IF = 2.858]**

173. Aryal, P., Saha. S., Kim, H.J., Kang, S.J., Ntarisa, A.V., Angnanon, A., **Kaewkhao, J.,** 2021, **"Synthesis and characterization of CeF3‒doped (74.5-x) P2O5 : 20Li2O : 5Al2O3 : x(GdF3, LaF3 and YF3) glasses"**, Radiation Physics and Chemistry, 189, article Number 109700 **[Q1, IF = 2.858]**

174. Saha, S., Khan, A., Kim, H.J., Vuong, P.Q., Pandry, R.I., **Kaewkhao, J.,** Kothan, S., Kiwsakunkran, N., 2021, “**Luminescence and Scintillation Properties of Czochralski Grown Pr3+ Doped Li6Y(BO3)3 Single Crystal”,** Optical Materials **,** 119,article Number 111361 **[Q2, IF = 3.080]**

175**.** Jomkaew, T, Chaiphaksa, W., Siengsanoh, K., Limkitjaroenporn, P., Kedkaew, C., Kim, H.J., Kothan, S., Prasatkhetragarn, A., **Kaewkhao, J.**, 2021, **""Electron and photon responses of CWO scintillation crystal""**, Radiation Physics and Chemistry, 189, article Number 109749 **[Q1, IF = 2.858]**

176. Rittisut. W, Wantana, N., Ruangtaweep, Y., Mool-am-kha, P., Rujirawat, S., Manyum, P., Yimnirun. R., Kitkhuntod, P., Prasatkhetragarn, A., Kothan, S., Kim, H.J., **Kaewkhao, J.**, 2021, **"The radioluminescence and photoluminescence behaviour of lithium alumino borate glasses doped with Tb2O3 and Gd2O3 for green luminescence applications"**, Optical Materials 121 (2021) 111437 **[Q2, IF = 3.080]**

177. Boonin, K., Yasaka, P., Yamchumporn, P., Triamnak, N., Kothan, S.,

**Kaewkhao, J.**, 2021, **"Scintillation respond and orange emission from Sm3+ ion doped tellurite and fluorotellurite glasses: A comparative study"**, Radiation Physics and Chemistry  , 189, article Number 109754 **[Q1, IF = 2.858]**

**Jakrapong Kaewkhao’s report in databased - Updated: August 2021**

[1] Jakrapong Kaewkhao’s Scopus report **(H-Index = 35, Publication = 497, Citation = 4371)**

<https://www.scopus.com/authid/detail.uri?authorId=23974520300>

[2] Jakrapong Kaewkhao’s ISI report **(H-Index = 32, Publication = 368, Citation = 3655)**

[3] Jakrapong Kaewkhao’s Google Scholar report **(H-Index = 37, Citation = 5343 )**

<https://scholar.google.com/citations?user=Es9nuUwAAAAJ&hl=en>