[CURRICULUM VITAE]

SANDEEP KAUR (PH.D.)

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EDUCATION

Ph.D.	**Jeonbuk National University, Jeonju, South Korea.** Department of BIN Fusion Technology & Department of Polymer-Nano Science and Technology, March 2014 ~ August 2018. Thesis Title: Shape controlled synthesis of colloidal nanocrystals for optoelectronic and photothermal applications Advisor: Prof. Seung Hee Lee
M.Tech. (Nano Sci. & Nano Tech.)	**Panjab University, Chandigarh, India.** Center for Nano Science & Nano Technology, July 2007~ July 2009. Dissertation Title: Vertical alignment of carbon nanotubes using chemical methods. Advisor: Dr. L.M. Bhardwaj
M.Sc. (Physics)	**Panjab University, Chandigarh, India.** Department of Physics, August 2004 ~ July, 2006
B.Sc.	**Panjab University, Chandigarh, India.** Guru Nanak Girls College, Ludhiana, July, 2001~ July, 2004

WORK EXPERIENCE

Assistant Professor (Regular) (October 3, 2022 – till date)
Department of Physics, Dasmesh Girls College, Chak Alla Baksh, Mukerian, Punjab, India

Assistant Professor (Adhoc) (March 17 , 2022-June 30, 2022)
Department of Physics, MCM DAV College for Women, Sector 36A, Chandigarh, India.

Postdoctoral researcher (Contractual) (May, 2019 – May 2021)
Nano- and Thermo-photonics Group, College of Optical Science and Engineering, Zhejiang University, Yuquan Campus, Hangzhou 310027, China.
Advisor: Qiang Li

Assistant Professor (Regular) (July, 2012 – March, 2014)
Department of Nanotechnology, Sri Guru Granth Sahib World University, Fatehgarh Sahib, Punjab, India.

Assistant Professor (Adhoc) (July, 2010 – September, 2011)
Department of Physics, Mata Ganga Khalsa College, Kottan, Ludhiana, Punjab, India.

ARCHIVAL JOURNALS

Total Research Articles: 21 (***International***)
Conference Presentations: 4 (***International***)
Google Scholar Account: https://scholar.google.com/citations?user=n4qK6F8AAAAJ&hl=en

1. **Sandeep Kaur**, G. Murali, Ramesh Manda, Young Cheol Chae, Minhee Yun, Joong Hee Lee and Seung Hee Lee; *Functional Film with Electric-Field-Aided Aligned Assembly of Nanorods for Potential Application in Liquid Crystal Display*. Advanced Optical Materials 6 (17), 1800235 (2018). (I.F. – 10.5)

2. **Sandeep Kaur**, G. Murali, Ramesh Manda, Yulki Kim, Sung Guk Lee, Yun Jin Heo and Seung Hee Lee; *Field Assisted Unidirectional Alignment of Quantum-Rods with Polarized Light Emission*. SID Symposium Digest of Technical Papers 49 (1), 1647-1650 (2018).

3. **Sandeep Kaur†,** Riski Titian Ginting†, Dong-Kwon Lim, Jung-Mu Kim, Joong Hee Lee, Seung Hee Lee, and Jae-Wook Kang; *Plasmonic Effect of Gold Nanostars in Highly Efficient Organic and Perovskite Solar Cells*. ACS Applied Materials & Interfaces 9 (41), 36111-36118 (2017). ***(†Co-First Author***). (I.F. – 10.383)

4. Wonseok Yang, **Sandeep Kaur**, Yong Duk Kim, Jungmu Kim, Seung Hee Lee, Dong-Kwon Lim; *Precise Control Over the Silica Shell Thickness and Finding the Optimal Thickness for the Peak Heat Diffusion Property of AuNR@ SiO_2.* Journal of Materials Chemistry B 10 (3), 364-372 (2021) (I.F. – 7.571)

5. G. Murali, **Sandeep Kaur**, Jongwoo Kim, Sang Hwan Nam, Joong Hee Lee, Yung Doug Suh, Insik In and Seung Hee Lee; *Ultrathin Yttrium Fluoride Nanostructures: Controlled Synthesis and Polarized Up-Conversion Emission Property*. Journal of Materials Chemistry C 7 (35), 10918-10925 (2019). (I.F. – 8.067)

6. Dinesh Kumar, **Sandeep Kaur** and Dong-Kwon Lim; *Plasmon-assisted and visible-light induced graphene oxide reduction and efficient fluorescence quenching*. Chemical Communications 50 (88), 13481-13484 (2014). (I.F. – 6.065)

7. G. Murali, **Sandeep Kaur**, Young Cheol Chae, Manda Ramesh, Jongwoo Kim, Yung Doug Suh, Dong-Kwon Lim and Seung Hee Lee; *Monodisperse, shape-selective synthesis of YF3:Yb3+/Er3+ nano/microcrystals and strong upconversion luminescence of hollow microcrystals.* RSC Advances 7 (39), 24255-24262 (2017). (I.F. – 4.036).

8. Dinesh Kumar, Ah-Reum Lee, **Sandeep Kaur**, Dong-Kwon Lim; *Visible-light Induced Reduction of Graphene Oxide Using Plasmonic Nanoparticle*. JoVE (Journal of Visualized Experiments), e53108 (2015). (I.F. – 1.4)

9. Yun Huang, Binze Ma, Arnab Pattanayak, **Sandeep Kaur**, Min Qiu, Qiang Li. *Infrared Camouflage Utilizing Ultrathin Flexible Large-Scale High-Temperature-Tolerant Lambertian Surfaces*; Laser & Photonics Reviews 2000391 (2021) (I.F.- 10.947)

10. Hao Luo, Yining Zhu, Ziquan Xu, Yu Hong, Pintu Ghosh, **Sandeep Kaur**, Mingbang Wu, Chenying Yang, Min Qiu, Qiang Li. *Outdoor personal thermal management with simultaneous electricity generation*; Nano letters 21 (9), 3879-3886 (2021). (I.F. – 12.26)

11. Meiyan Pan, Yun Huang, Qiang Li, Hao Luo, Huanzheng Zhu, **Sandeep Kaur**, Min Qiu; *Multi-band middle-infrared-compatible camouflage with thermal management via simple photonic structures*. Nano Energy (69),104449 (2020). (I.F. – 19.069)

12. Ziquan Xu, Hao Luo, Huanzheng Zhu, Yu Hong, Weidong Shen, Jianping Ding, **Sandeep Kaur**, Pintu Ghosh, Min Qiu, Qiang Li. *Nonvolatile Optically Reconfigurable Radiative Metasurface with Visible Tunability for Anticounterfeiting*; Nano letters 21 (12) 5269–5276 (2021). (I.F. – 12.26)

13. Huanzheng Zhu, Qiang Li, Chenning Tao, Yu Hong, Ziquan Xu, Weidong Shen, **Sandeep Kaur,** Pintu Ghosh, Min Qiu. *Multispectral camouflage for infrared, visible, lasers and microwave with radiative cooling*; Nature Communications 12 (1), 1-8 (2021). (I.F. – 17.69)

14. Hao Luo, Jingyi Tian, Qiang Li, Binze Ma, Yining Zhu, Jianbo Yu, Yu Hong, Ao Ouyang, Pavel Belov, Ravindra K Sinha, **Sandeep Kaur**, Min Qiu; *Flat photonics for broadband light-trapping*. Applied Physics Letters 117 (24), 241105 (2020). (I.F. – 3.816)

15. Huanzheng Zhu, Qiang Li, Chunqi Zheng, Yu Hong, Ziquan Xu, Han Wang, Weidong Shen, **Sandeep Kaur**, Pintu Ghosh, Min Qiu; *High-temperature infrared camouflage with efficient thermal management*. Light: Science & Applications 9 (1), 1-8 (2020). (I.F. – 20.257)

16. Yunbin Ying, Qiang Li, **Sandeep Kaur**, Pintu Ghosh; *Thermal Emissivity Measurement with Two-temperature Method.* Journal of Physics: Conference Series 2002 (1), 012056 (2021).

17. Jianbo Yu, Binze Ma, Ao Ouyang, Pintu Ghosh, Hao Luo, Arnab Pattanayak, **Sandeep Kaur**, Min Qiu, Pavel Belov, Qiang Li; *Dielectric super-absorbing metasurfaces via PT symmetry breaking.* Optica 8 (10), 1290-1295 (2021). (I.F. – 10.644)

18. Yining Zhu, Hao Luo, Chenying Yang, Bing Qin, Pintu Ghosh, **Sandeep Kaur**, Weidong Shen, Min Qiu, Pavel Belov, Qiang Li; Color-preserving passive radiative cooling for an actively temperature-regulated enclosure. Light: Science & Applications 11 (1), 122 (2022). (I.F. – 20.257)

19. Binze Ma, Yun Huang, Weiyi Zha, Bing Qin, Rui Qin, Pintu Ghosh, **Sandeep Kaur**, Min Qiu, Qiang Li; Narrowband diffuse thermal emitter based on surface phonon polaritons. Nanophotonics 11 (17), 4115-4122 (2022). (I.F. – 7.923)

20. Ramesh Manda, Srinivas Pagidi, Min Su Kim, Chul Ho Park, Hye Sun Yoo**, Sandeep Kaur**, Young Jin Lim & Seung Hee Lee; *Effect of monomer concentration and functionality on electro-optical properties of polymer-stabilised optically isotropic liquid crystals.* Liquid Crystals 45 (5), 736-745 (2018). (I.F. – 2.676)

21. Ramesh Manda, Min Su Kim, Eun Jeong Shin, Myoung-Seon Gong, G Murali, **Sandeep Kaur**, Myong-Hoon Lee, Joong Hee Lee & Seung Hee Lee; *Phase stabilisation of blue-phase liquid crystals using a polymerisable chiral additive*. Liquid Crystals 44 (6), 1059-1068 (2017). (I.F. – 2.676)

CONFERENCE PRESENTATIONS

1. Presented a poster entitled "Field Assisted Unidirectional Alignment of Quantum-Rods with Polarized Light Emission" at "Society of Information Display (SID- May, 2018)" conference held at California, Los Angeles.

2. Presented a poster entitled "Functional film having Field Assisted Unidirectional Alignment of Quantum Nanorods with Emission of a Polarized Light" at "International Meeting on Information Display (IMID-2017)", held in Busan, South Korea.

3. Presented a poster entitled "Critical Factors Affecting Silica Layer on Gold Nanorods Surface" at "International conference on Hybrid Materials (ICHM-2015)", held in Chonbuk National University, Jeonju, South Korea.

4. Presented a poster entitled “Investigating critical factors affecting the silica shell formation on gold nanorods surface” at “International Workshop on Flexible and Printable Electronics (IWFPE-2015)”, held in Jeonju, South Korea.

OTHER RELEVANT INFORMATION

Cumulative Impact Factor	: 188.497
Total Citation (Google Scholar)	: > 960
h-index	: 13
i10-index	: 14

PERSONAL DETAILS

Gender	: Female
Date of Birth	: July 26, 1984
Marital Status	: Married
Nationality	: Indian

DECLARATION

I hereby declare that the above information is true to best of my knowledge.

(Sandeep Kaur)