

CURRICULUM VITAE

Name : Dr. Sunil Kumar

Current Designation : Associate Professor
Department of Physics, Indira Gandhi
University, Meerpur-122502,
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Father's Name : Sh. Mohinder Kumar

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(A) ACADEMIC QUALIFICATIONS

Qualification	University	Year
Ph.D Title: Laser induced photoluminescence studies of some inorganic phosphors	Punjabi University Patiala, India	2004
M.Sc (Applied Physics)	Punjabi University Patiala, India	1997
B.Sc (Non-Medical)	Punjabi University Patiala, India	1995

(B) TOTAL PROFESSIONAL EXPERIENCE – 22.5 years (16.5 years after PhD)

DETAILS OF TEACHING AND RESEARCH EXPERIENCE:

Organization	Post Held	Exact dates		Nature of duties
		From	To	
Indira Gandhi University, Rewari, Haryana.	Associate Professor	Apr. 1, 2021 (A.N)	Till Date	Teaching & Research
Indira Gandhi University, Rewari, Haryana.	Associate Professor & Chairperson (On Contract)	Nov. 2, 2019	Apr. 1, 2021	Teaching & Research
GE-Tech (Son Company of Dongguk University), Seoul, South Korea	Director Research & Senior Scientist	Mar.15, 2016	Oct. 31, 2019	Administration & Research
Nano Information Technology Academy, Dongguk University, Seoul, South Korea	Assistant Professor	June.1, 2013	Oct. 31, 2019	Research & Teaching
Maharishi Markandeshwar University, Mullana, India	Associate Professor	Apr.1, 2010	May.15, 2013	Teaching and Research
Institute of Photonic Sciences, Barcelona, Spain	Short Term Marie Curie Postdoctoral Fellowship	Feb.2, 2012	May.22, 2012	Research
Department of Chemical Engineering, National Taiwan University, Taipei, Taiwan (Republic of China)	Postdoctoral Fellow	July.21, 2010	May.31, 2011	Research
Maharishi Markandeshwar University, Mullana, India	Assistant Professor	July.21, 2008	Mar.31, 2010	Teaching and Research
Thapar University, Patiala, India	Postdoctoral Fellow in DST funded major R&D Project	July.20, 2006	July.20, 2008	Research and Teaching
Thapar University, Patiala, India	Lecturer in Physics (Contract)	Jan. 3, 2005	Mar. 8, 2006	Teaching
Thapar Polytechnic, Patiala, India	Lecturer in Physics (Guest Faculty)	Mar.1, 2001	Dec. 14, 2004	Teaching

Thapar University, Patiala, India	Project Fellow in UGC major R&D project	Jan. 24, 1999	Nov.13, 2001	Research and Teaching
PMN College, Rajpura, India	Lecturer in Physics (Part Time)	Sept. 16, 1997	Jan.23, 1999	Teaching

(C) AREA OF SPECIALIZATION

Optoelectronic Materials, Functional Nanomaterials, Renewable Energy & Bio-Physics

(D) PUBLICATIONS & PATENTS

(State:Published/Accepted for Publication)

(i) **Research Publications** : 109

International Journals : 101 (Papers as a First Author/Corresponding Author: 62)

National Journals : 1

International Conferences : 4

National Conferences :1

Book Chapters : 2

(ii) **Patents:**

Granted International Patents: 2 (one Korean and one Multinational)

Filed International Patents: 2 (one US and One Australian)

(iii) **Workshops Attended :**

4 (one day), 1 (one week)

(iv) **Workshops Organized :**

1 (two days national seminar)

(v) **Presentations (Conference/Invited Talks) :** 4

(vi) **Conference Proceedings (Abstracts) :** 80

(E) RESEARCH GUIDANCE

PhDs – 5 (awarded)

Master – 5 (awarded)

(F) PROJECTS

Major Research Projects

One Young Scientist project funded by Department of Science & Technology, (DST) completed as a PI

One Korean project funded by National Research Foundation (NRF) completed as a Co-PI

One Korean-Sweden project funded by Swedish Korean Basic Research Program (KBRCP) completed as a Co-PI

One Industrial Korean project funded by Small Business Administration in a scheme of 2017 Founded leading universities "Founded item Commercialization" completed as a Company Partner

(G) ACADEMIC ACTIVITIES

1. Referee of reputed journals under American Chemical Society, Royal Society of Chemistry, Springer, Elsevier, American Scientific Publisher etc.

(H) ADMINISTRATIVE ACTIVITIES

1. Acted as a Chairperson of Physics Department.
2. Acting as a Co-Coordinator of UNNAT Bharat Project, Indira Gandhi University, Rewari, Haryana, India.
3. Leded a research activity of GE-TECH (son company of Dongguk Universty) as a Director Research, Seoul. South Korea.
4. Leded a independent research group of Green Energy in Nano Information Technology Academy, Seoul, South Korea.
5. Acted as Incharge of hostel disciplinary committee of Maharishi Markandeshwar University, Mullana, India.
6. Worked as a Deputy Superintendent in final examinations in MM University, Mullana, India and Indira Gandhi University, Rewari, India.
7. Ex-Member of Anti-ragging committee of the MM University, Mullana, India. Acted as a Teacher Warden of various boys hostels in MM University, Mullana, India.
8. Acted as a Coach & Coordinator of Chess team and Martial Arts team in the MM University, Mullana, India.

(I) ADDITIONAL INFORMATION

- Life member of Indian Laser Association.
- Life member of Indian Association of Physics Teachers.
- Have appreciable computer skills with a working knowledge of MSWORD, EXCEL, POWERPOINT, ORIGIN etc

List of Publications (Total: 109) *Papers as a First Author/Corresponding Author: 62

International Journals: 101

1. ***Sunil Kumar**, Shalini Taneja, Shelza Banyal, Manju Singhal, Vijay Kumar, Sanjay Sahare, Shern- Long Lee, Ravi Kant Choubey Bio- synthesised Silver Nanoparticle- Conjugated l- Cysteine Ceiled Mn:ZnS Quantum Dots for Eco- friendly Biosensor and Antimicrobial Applications Journal of Electronic Materials (Springer) Published Online (2021) (IF- 1.77)
<https://link.springer.com/article/10.1007/s11664-021-08926-4>
2. ***Sunil Kumar**, Rajni Seth, Sanjay Panwar, Kapil Kumar Goyal, Vijay Kumar and Ravi Kant Choubey Morphological and Optical Studies of ZnO-Silica Nanocomposite Thin Films Synthesized by Time Dependent CBD Journal of Electronic Materials (Springer) Published Online (2021) (IF- 1.77)
<https://doi.org/10.1007/s11664-021-08863-2>
3. Vijay Kumar, Dev Raj, S. K. Chakarvarti, Ravi Kant Choubey & ***Sunil Kumar**. Solvothermal growth of ultrathin nonporous nickel oxide nanosheets for ethanol sensing Journal of Materials Science: Materials in Electronics (Springer) 32, 818-826 (2021) (IF- 2.22)
<https://link.springer.com/article/10.1007/s10854-020-04860-z>
4. Stuti Tomar, Suhaas Gupta, Samrat Mukherjee, Arun Singh, **Sunil kumar**, Vijay Kumar, Ravi Kant Choubey Optical Properties of Silica capped Mn doped ZnS quantum dots Physica Scripta (IOP), 96, 1-8, 2021. (IF- 1.98)
<https://iopscience.iop.org/article/10.1088/1402-4896/abed7e>
5. Verjesh Kumar Magotra, **Sunil Kumar**, T. W. Kang, Akbar I . Inamdar, Abu Talha Aqueel, Hyunsik Im, Gajanan Ghodake, Surendra Shinde, D. P Waghmode & H. C . Jeon Compost Soil Microbial Fuel Cell to Generate Power using Urea as Fuel, Nature Scientific Reports (2020) 10:4154. (IF- 4.122)
<https://www.nature.com/articles/s41598-020-61038-7>
6. V. K. Magotra, H. C. Jeon, **S. Kumar**, T. W. Kang, S. J. Lee, S. H. Park and N. Myoung, Electronic and Optical Properties of Staggered ZnO/ZnO_{1-x}Sx-ZnO_{1-y}Sy/ZnO Quantum Wells for Bluish-Green Light-Emitting Diodes, Journal of the Korean Physical Society 76, page-277 (2020). (IF- 0.63)
<https://link.springer.com/article/10.3938/jkps.76.277>
7. Gajanan Ghodake, Surendra Shinde, Rijuta Ganesh Saratale, Avinash Kadam, Ganesh Dattatraya Saratale, Rahul Patel, Ashok Kumar, **Sunil Kumar** & Dae-Young Kim Whey peptide-encapsulated silver nanoparticles as a colorimetric and spectrophotometric probe for palladium(II), Microchimica Acta volume 186, 763 (2019). (IF- 6.23)
<https://link.springer.com/article/10.1007/s00604-019-3877-8>
8. ***Sunil Kumar**, H. C. Jeon, T. W. Kang, Rajni Seth, Sanjay Panwar, Surendra K. Shinde, D. P. Waghmode, Rijuta Ganesh Saratale, Ravi Kant Choubey Variation in chemical bath pH and the corresponding precursor concentration for optimizing the optical, structural and morphological properties of ZnO thin films, Journal of Materials Science: Materials in Electronics, (Springer) (2019) 30, 7-17758. (IF- 2.22)
<https://link.springer.com/article/10.1007/s10854-019-02125-y>
9. S.K. Shinde , H.M. Yadav, G.S. Ghodakea, A.A. Kadam, V.S. Kumbhar, Jiwook Yang, Kyojung Hwang, A.D. Jagadale, **Sunil Kumar**, D.Y. Kim, Using chemical bath deposition to create nanosheet-like CuO electrodes for supercapacitor applications, Colloids and Surfaces B: Biointerfaces (Elsevier), 181 (2019) 1004-1011. (IF- 4.38)

<https://www.sciencedirect.com/science/article/pii/S0927776519303637>

10. Manju Singhal, J. K. Sharma, H. C. Jeon, T. W. Kang & *Sunil Kumar, Synthesis and characterisation of functional manganese doped ZnS quantum dots for bioimaging application, *Advances in Applied Ceramics* (Taylor & Francis), VOL. 118, NO. 6, 321–328. (IF- 1.66)
<https://www.tandfonline.com/doi/abs/10.1080/17436753.2019.1587937?journalCode=yaac20>
11. *Sunil Kumar, Anita Jain, Sanjay Panwar, Indu Sharma, Hee Chang Jeon, Tae Won Kang, Ravi Kant Choubey, Effect of silica on the ZnS nanoparticles for stable and sustainable antibacterial application, *Advances in Applied Ceramics: Structural, Functional and Bioceramics* (Taylor & Francis), Volume 16(2), (2019), 531-540. (IF- 1.66)
<https://ceramics.onlinelibrary.wiley.com/doi/10.1111/ijac.13145>
12. Rijuta Ganesh Saratale, Ganesh Dattatraya Saratale, Si-Kyung Cho, Gajanan Ghodake, Avinash Kadam, Sunil Kumar, Sikandar I. Mulla, Dong-Su Kim, Byong-Hun Jeon, Jo Shu Chang, Han-Seung Shin, Phyto-fabrication of silver nanoparticles by *Acacia nilotica* leaves: Investigating their antineoplastic, free radical scavenging potential and application in H₂O₂ sensing, *Journal of the Taiwan Institute of Chemical Engineers* (Elsevier), Volume 99, June 2019, Pages 239-249. (IF- 4.79)
<https://www.sciencedirect.com/science/article/pii/S1876107019301142>
13. *Sunil Kumar, Tae Won Kang, Seung Joo Lee, Shavkat Yuldashev, Shalini Taneja, Shelza Banyal, Manju Singhal, Gajanan Ghodake, H. C. Jeon, Deuk Young Kim, Ravi Kant Choubey, Correlation of antibacterial and time resolved photoluminescence studies using bio-reduced silver nanoparticles conjugated with fluorescent quantum dots as a biomarker, *Journal of Materials Science: Materials in Electronics* (Springer) (2019) 30:6977–6983. (IF- 2.22)
<https://link.springer.com/article/10.1007/s10854-019-01015-7>
14. Vijay Kumar, Kapil Kumar, H.C. Jeon, T.W. Kang, Dongjin Lee, *Sunil Kumar, Effect of Cu-doping on the photoluminescence and photoconductivity of template synthesized CdS nanowires, *Journal of Physics and Chemistry of Solids* (Elsevier) 124 (2019) 1–6. (IF- 3.44)
<https://www.sciencedirect.com/science/article/pii/S0022369718301951>
15. Harpreetpal Singh, · Vijay Kumar, Devraj, Sunil Kumar, T. W. Kang and H.C. Jeon, Influence of Synthesis-Dependent Structural Morphology on Performance of Natural Dye-Sensitized ZnO Solar Cells, *JOM* (Springer), Vol. 71, No. 4, 2019. (IF – 2.02)
<https://link.springer.com/article/10.1007/s11837-019-03372-4>
16. *Sunil Kumar, Verjesh Kumar Magotra, H.C. Jeon, T.W Kang, Akbar I. Inamdard, Abu Talha Aqueel, Hyunsik Im and Rajeev Ahuja, Multifunctional ammonium fuel cell using compost as a novel electro-catalyst, *Journal of Power Sources* (Elsevier), 402 (2018) 221–228. (IF-8.23)
<https://www.sciencedirect.com/science/article/pii/S0378775318310127>
17. *Sunil Kumar, T.W. Kang, Suman Bala, Sunil Kamboj , and H.C. Jeon, Photo-toxicity free quantum dot based niosome formulation for controlled drug release and its monitoring, *Applied Nanoscience* (Springer), (2018) 8:617–625. (IF-3.32)
<https://link.springer.com/article/10.1007/s13204-018-0757-1>
18. Dongjin Lee, H.S. Jeon, T.W. Kang and *Sunil Kumar, Controlling the physical parameters of crystalline CIGS nanowires for use in superstrate configuration using vapor phase epitaxy, *Applied Nanoscience* (Springer), (2018) 8:1043–1051. (IF-3.32)
<https://link.springer.com/article/10.1007/s13204-018-0724-x>
19. Harpreetpal Singh, · Vijay Kumar, · H. C. Jeon, · T. W. Kang, · *Sunil Kumar, Structural, optical and electrical properties of Ni doped ZnO nanostructures synthesized by solution combustion method, *J Mater Sci: Mater Electron* (Springer) (2018) 29:1327–1332. (IF- 2.22)
<https://link.springer.com/article/10.1007/s10854-017-8038-4>
20. Anupriya Jain, Anita Jain, Sanjay Panwar, Rajan Singh, Manju Singhal, J. K. Sharma, Rajeev Ahuja, H. C. Jeon, T. W. Kang and *Sunil Kumar, Studies of hypro-mellose (HPMC) functionalized ZnS:Mn

- fluorescent quantum dots. *J Mater Sci: Mater Electron* (Springer) (2017) 28:1931–1937. (IF- 2.22)
<https://link.springer.com/article/10.1007/s10854-016-5746-0>
21. ***Sunil Kumar**, H. C. Jeon, T. W. Kang, Rajesh Kalia , J. K. Sharma , Sanjay Panwar, Sapna Kalia, Vandana Sharma, and R. K. Choubey, Development of Humidity Sensor Using Nanoporous Polycarbonate Membranes. *Russian Journal of Physical Chemistry A* (Springer), 2017, Vol. 91, No. 13, pp. 2666–2670. (IF-0.719)
<https://link.springer.com/article/10.1134/S0036024417130192>
 22. Rajni Seth, Sanjay Panwar, **Sunil Kumar**, T. W. Kang and H. C. Jeon, pH Dependent Studies of Chemical Bath Deposition Grown ZnO-SiO₂ Core-Shell Thin Films, *Journal of the Korean Physical Society* (Springer), Vol. 70, No. 1, January 2017, pp. 98 ~103. (IF-0.63)
<https://link.springer.com/article/10.3938/jkps.70.98>
 23. Sanjay Sahare, Ravi Kant Choubey, Gurunath Jadhav, Tejashree M. Bhave, Samrat Mukherjee and **Sunil Kumar**, A Comparative Investigation of Optical and Structural Properties of Cu-Doped CdO-Derived Nanostructures, *Journal of Superconductivity and Novel Magnetism*, (Springer) (2017) 30:1439–1446. (IF-1.24) <http://link.springer.com/article/10.1007/s10948-016-3943-y>
 24. Vijay Kumar, Sonia Arora, **Sunil Kumar**, T. W. Kang, H. C. Jeon, Annealing led conversion from polypyrrole to carbon nitride nanowires and the fabrication of highly efficient ammonia sensing device, *J Mater Sci: Mater Electron* (Springer) (2017) 28:17791–17797. (IF- 2.22)
<https://link.springer.com/article/10.1007/s10854-017-7719-3>
 25. H. C. Jeon, **Sunil Kumar**, S. J. Lee and T. W. Kang, Electronic and Optical Properties of ZnOS/ZnO Quantum-well Structures with Polarization Effects, *Journal of the Korean Physical Society* (Springer), Vol. 69, No. 3, August 2016, pp. 370 ~ 372. (IF-0.63)
<http://link.springer.com/article/10.3938/jkps.69.370>
 26. Ravi Kant Choubey, Dipti Desai, S. N. Kale & **Sunil Kumar**, Effect of annealing treatment and deposition temperature on CdS thin films for CIGS solar cells applications, *J Mater Sci: Mater Electron* (2016) 27:7890–7898. (IF- 2.22)
<http://link.springer.com/article/10.1007%2Fs10854-016-4780-2>
 27. Kavita, Dinesh Kumar, Karamjit Singh, **Sunil Kumar**, H.S. Bhatti, Photoluminescent properties of SPAN-80 coated intrinsic and extrinsic ZnO nanostructures, *Physica-E* (Elsevier), 79(2016)188–197. (IF-3.17) <http://www.sciencedirect.com/science/article/pii/S1386947715303295>
 28. Manju Singhal, J. K. Sharma, H. C. Jeon, T. W. Kang, ***Sunil Kumar**, Effect of pyridine capping on morphological and optical properties of ZnS:Mn²⁺ core-shell quantum dots, *J Mater Sci: Mater Electron* (Springer) (2016) 27:3003–3010. (IF-2.22)
<http://link.springer.com/article/10.1007%2Fs10854-015-4122-9>
 29. ***Sunil Kumar**, H. C. Jeon, T. W. Kang, Devraj, Jaskanwal Sekhon, N. K. Verma, H. S. Bhatti, and Ravi Kant Choubey, Effect of Ferromagnetic Dopants on Laser Induced Optical Parameters of Bismuth Doped CaS Phosphors, *Russian Journal of Physical Chemistry A*, 2015, Vol. 89, No. 13, pp. 2482–2486. (IF-0.71)
<http://link.springer.com/article/10.1134%2FS003602441513035X>
 30. H.C.Jeon, T. W. Kang, Anupriya Jain, Sanjay Panwar, Suman Bala, Sunil Kamboj, ***Sunil Kumar**, Structural and optical behavior of hexa-propyl methyl cellulose (HPMC) capped ZnS core-shell quantum dots, *J Mater Sci: Mater Electron* (2015) 26:5980–5986. (IF-2.22)
<http://link.springer.com/article/10.1007%2Fs10854-015-3173-2>
 31. ***Sunil Kumar**, H. C. Jeon, T. W. Kang, Rajan Singh, J. K. Sharma, Ravi Kant Choubey,

Structural and optical properties of silica capped ZnS:Mn, quantum dots, J Mater Sci: Mater Electron (2015) 26:3939–3946. (IF-2.22) <http://link.springer.com/article/10.1007%2Fs10854-015-2928-0>

32. Hee Chang Jeon, Seung Joo Lee, **Sunil Kumar** and Tae Won Kang, Effects of AlN Buffer Layers on the Structural and the Optical Properties of GaN Epilayers Grown on Al₂O₃ Substrates by using Plasma-assisted Molecular Beam Epitaxy Journal of the Korean Physical Society(Springer), Vol. 64, No. 8, April 2014, pp. 1128 ~1131. (IF-0.63)
<http://link.springer.com/article/10.3938%2Fjkps.64.1128>
33. H. S. Bhatti, Karamjit Singh, Kavita, **Sunil Kumar**, and R. K. Choubey, Photo_Physical Studies of Pyridine Capped ZnO Nanostructures, Russian Journal of Physical Chemistry-A(Springer), 2014, Vol. 88, No. 7, pp. 1166–1171, 2014. (IF-0.71)
<http://link.springer.com/article/10.1134%2FS0036024414070048>
34. Anita Jain, Sanjay Panwar, T. W. Kang, H. C. Jeon, ***Sunil Kumar**, R. K. Choubey, Effect of zinc oxide concentration in fluorescent ZnS:Mn/ZnO core–shell nanostructures J Mater Sci: Mater Electron (Springer) (2014) 25:1716–1723. (IF-2.22)
<http://link.springer.com/article/10.1007%2Fs10854-014-1788-3>
35. R. K. Choubey, S. Medhekar, R. Kumar, S. Mukherjee, **Sunil Kumar**, Study of nonlinear optical properties of organic dye by Z-scan technique using He–Ne laser J Mater Sci: Mater Electron (Springer) (2014) 25:1410–1415. (IF-2.22)
<http://link.springer.com/article/10.1007%2Fs10854-014-1743-3>
36. Kavita, Karamjit Singh, **Sunil Kumar**, H.S. Bhatti, Glutathione-assisted synthesis of star-shaped zinc oxide nanostructures and their photoluminescence behavior, Journal of Luminescence (Elsevier) , 149(2014)112–117. (IF-3.28)
<http://www.sciencedirect.com/science/article/pii/S0022231314000040>
37. ***Sunil Kumar**, T.W. Kang, P.Yousaf Khan, Sanjeev Kumar, Manju Goyal and Ravi Kant Choubey, Study of electroless template synthesized ZnSe nanowires and its characterization J Mater Sci: Mater Electron, (Springer) (2014) 25:957–961. (IF-2.22)
<http://link.springer.com/article/10.1007%2Fs10854-013-1670-8>
38. R. K. Choubey, **Sunil Kumar** and C. W. Lan, Shallow bath chemical deposition of ZnS buffer layer for environmentally benign solar cell devices. Advances in Natural Sciences: Nanoscience and Nanotechnology, (IOP) (2014), 5, 025015-(1 -5). (IF- To be received)
<https://iopscience.iop.org/article/10.1088/2043-6262/5/2/025015>
39. Anita Jain, Sanjay Panwar, T.W. Kang and ***Sunil Kumar**, Effect of zinc oxide concentration on the core–shell ZnS/ZnO nanocomposites, J Mater Sci: Mater Electron (Springer) (2013) 24:5147–5154. (IF-2.22)
<http://link.springer.com/article/10.1007%2Fs10854-013-1537-z>
40. ***Sunil Kumar**, Manju Singhal and J.K. Sharma, Functionalization and characterization of ZnS quantum dots using biocompatible L-cysteine, J. Mater Sci: Mater Electron, (Springer), J Mater Sci: Mater Electron (Springer) (2013) 24:3875–3880. (IF-2.22)
<http://link.springer.com/article/10.1007%2Fs10854-013-1332-x>
41. H.S.Bhatti, **Sunil Kumar**, Karamjit Singh and Kavita, Structural and Optical Characterization of Hydroxy-propyl Methyl Cellulose Capped ZnO Nanorods, Journal of Material Science, (Springer) Volume 48, Issue 16 (2013), Page 5536-5542. (IF- 3.55)
<https://link.springer.com/article/10.1007/s10853-013-7348-z>
42. Manju Singhal, J.K. Sharma, ***Sunil Kumar**, Morphological and Optical Behaviour of Pyridine Capped Bio-Compatible ZnS Quantum Dots, Advance Science: Engineering and Medicine

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43. S. Sharma, S. K. Sundaray, Arpit Garg, and ***Sunil Kumar**, Effect of Dye Adsorption on Carrier Dynamics in TiO₂ for Efficient Water Pollution Control, Advanced Science, Engineering and Medicine, (American Scientific Publishers) Vol. 5, pp. 1–7, 2013. (IF-yet to be received)
https://www.researchgate.net/publication/272208710_Effect_of_Dye_Adsorption_on_Carrier_Dynamics_in_TiO2_for_Efficient_Water_Pollution_Control
44. Rajni Seth, K L Gosain, Neena Jaggi, Sanjay Panwar and ***Sunil Kumar**; Raman and Photoluminescence Study of Low-temperature Synthesized –Weakly Confined Nanocrystals of ZnO; " Nonlinear Optics Quantum Optics-Concepts in Modern Optics (Old City Publishing) 44, no. 4 (2012): 259-266. (IF-0.25)
<https://www.oldcitypublishing.com/journals/nloqo-home/nloqo-issue-contents/nloqo-volume-44-number-4-2012/nloqo-44-4-p-259-266/>
45. Anita Jain, Sanjay Panwar, **Sunil Kumar**, Synthesis and characterization of Core Shell ZnS/ZnO nanoparticles, International Journal of Applied Engineering Research, vol. 7 No. 11, 2012. (IF-yet to be received)
46. Karamjit Singh, H.S. Bhatti, K.V. Baiju, S. Shukla, ***Sunil Kumar** and R. K. Choubey, , “Study of size dependent photo-induced exciton life-time and photocatalytic activity of nanocrystalline CdZnS”, Advanced Science Letters (American Scientific Publishers) Volume 16, Number 1, September 2012 , pp. 237-243(7). (IF- yet to be received).
<http://www.ingentaconnect.com/content/asp/asl/2012/00000016/00000001/art00039>
47. Jhen-Rong Syu, **Sunil Kumar**, Subrata Das, Chung-Hsin Lu, Microemulsion-Mediated Synthesis and Characterization of YBO₃:Ce³⁺ Phosphors, Journal of American Ceramic Society (Wiley) 95(6), 1814–1817, 2012. (IF-3.50)
<http://onlinelibrary.wiley.com/doi/10.1111/j.1551-2916.2012.05223.x/pdf>
48. Rahul Ghildiyal, Chia-Hao Hsu, Hao-Yun Chang, **Sunil Kumar**, Chung-Hsin Lu Effects of La³⁺ doping on the optical characteristics and color tunability of (Mg, Mn)(Y,Ce,La)₄Si₃O₁₃ phosphors, Journal of Luminescence (Elsevier), 132 (2012) 185–190. (IF-3.28) <http://www.sciencedirect.com/science/article/pii/S0022231311004492>
49. Manju Singhal, J. K. Sharma, ***Sunil Kumar**, Effect of biocompatible glutathione capping on core-shell ZnS quantum dots, J Mater Sci: Mater Electron (Springer), 2012, vol. 23, no-7, pp. 1387-1392. (IF-2.22) <http://link.springer.com/article/10.1007%2Fs10854-011-0603-7>
50. G.S Sekhon, ***Kumar Sunil**, Charanjit Kaur, Verma, N.K.; Chung Hsin Lu.; Chakarvarti, S.K., An efficient novel low voltage field electron emitter with cathode consisting of copper microarrays, J Mater Sci: Mater Electron (Springer) (2011) 22:1725–1729. (IF-2.22)
<https://www.springerprofessional.de/en/an-efficient-novel-low-voltage-field-electron-emitter-with-catho/3545054>
51. Vijay Kumar, ***Sunil Kumar**, Sanjeev Kumar and S. K. Chakarvarti, Optical studies of electrochemically synthesized CdS nanowires, J. of Material Science: Mater. Electronics (Springer), Volume 22, Number 4, (2011), 335-338. (IF-2.22)
<http://link.springer.com/article/10.1007%2Fs10854-010-0138-3>

52. P. Yousaf Khan, Manju Singhal, J.K. Sharma, Chung-Hsin Lu and ***Sunil Kumar**, UV-visible absorption studies of ZnSe chalcogenide quantum dots, *Nonlinear Optics, Quantum Optics: Concepts in Modern Physics* (Old City Publishers), 2011, Vol. 42, pp. 51–59. **(IF-0.25)**
<https://www.oldcitypublishing.com/journals/nloqo-home/nloqo-issue-contents/nloqo-volume-42-number-1-2011/nloqo-42-1-p-51-59/>
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