

CURRICULUM-VITAE

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Materials Science (Experim... Supercapacitors 2D Materials EMI Shielding



Educational Qualification

Degree	Year of Passing	University/Institute
Ph.D.	2011	University of Delhi, Delhi
M.Sc.	2002	M. D. University, Rohtak
B.Sc.	2000	M. D. University, Rohtak

Career Profile:

- Worked as Assistant Professor, Department of Physics, Maharshi Dayanand University, Rohtak from 21st September 2010 to 20th September 2022
- Working as Associate Professor, Department of Physics, Maharshi Dayanand University, Rohtak from 21th September 2022 onwards
- **Academic/Research Experience:** 13+ Years
- **Area of Research:** Materials Science (Experimental): Conjugated Polymers, Supercapacitors, 2D Materials, EMI Shielding, Nanomaterials
- **Administrative Responsibilities:** Deputy Director, ACIL, MDU Rohtak

Research Guidance:

No. of Students Supervised	Ph.D. Completed	Ph.D. Ongoing
	05	05

Projects Undertaken:

- **UGC Major Research Project: Reference No.: F. No. 41-1014/2012(SR)**
Title: Synthesis of conjugated polymer and graphene based thermally conducting nanocomposites for microwave absorption and electromagnetic shielding. (July 2012 – June 2015)
- **DST-SERB Major Research Project: SUR/2022/004522**
Title: MXene Based Electrode Materials: Synthesis, Optimization and Application in Flexible Supercapacitors. (October 2023 onwards)
- **UGC – SAP (DRS – I) Condensed Mater Physics Including Polymer Physics (Dy. Coordinator)**
Duration: 5 years (2012 –2017); **Total Grant Sanctioned:** Rs. 70.5/- lakhs

List of Publications:

- (1) Insitu Assembly of Fe₃O₄@ FeNi₃ Spherical Mesoporous Nanoparticles Embedded on 2D Reduced Graphene Oxide (RGO) Layers as Protective Barrier for EMI Pollution. Ritu Chahal, Yamini Dalal, Sajjan Dahiya, Rajesh Punia, A S Maan, Kuldeep Singh, and [Anil Ohlan](#). *Applied Surface Science Advances* 19 (2024) 100545. [I.F.- 6.2]
- (2) Recent Progress in Conjugated Polymers Composites with Metal-Organic Frameworks as Electrode Materials for Supercapacitors. Priya Siwach, Latisha Gaba, Sajjan Dahiya, Rajesh Punia, A S Maan, Kuldeep Singh, and [Anil Ohlan](#). *Applied Surface Science Advances* 19 (2024) 100555. [I.F.- 6.2]
- (3) Effect of Sr Doping on Electronic Transport Properties of SnS₂ Hexagonal Nanoplates. Anjali Sharma, Ashima Makhija, Deepika Yadav, Sajjan Dahiya, [Anil Ohlan](#), R Punia, and A S Maan. *Journal of Physics and Chemistry of Solids* 184 (2024) 111678. [I.F.- 4.0]
- (4) Template Based Synthesis of Mesoporous Ferrite Composites with Reduced Graphene Oxide for Electromagnetic Shielding Application. Malik, Sanket, Silki Sardana, Sajjan Dahiya, Rajesh Punia, A S Maan, and [Anil Ohlan](#). *Applied Surface Science Advances* 18 (2023) 100463. [I.F.- 6.2]
- (5) Hierarchical flower-like MoS₂/reduced graphene oxide nanohybrids supported on nickel foam as a high-performance electrode material for supercapacitor applications, Silki Sardana, Sajjan Dahiya, Rajesh Punia, A. S. Maan, Kuldeep Singh, [Anil Ohlan](#), *Journal of Materials Chemistry A*, 11 (2023) 5910. [I.F.- 11.9]
- (6) Hierarchical three dimensional polyaniline/N-doped graphene nanocomposite hydrogel for energy storage applications, Silki Sardana, Kanika Aggarwal, Priya Siwach, Latisha Gaba, A. S. Maan, Kuldeep Singh, [Anil Ohlan](#), *Energy Storage*, 5 (2023) e328. [I.F.- 3.2]
- (7) High-performance flexible supercapacitor based on morphology tuned polypyrrole/molybdenum disulfide nanocomposites, Rimjhim Yadav, Ayushi Saini, Jyoti Choudhary, Silki Sardana, [Anil Ohlan](#), Kuldeep Singh, Surinder P. Singh, *Energy Storage*, (2023) e477. [I.F.- 3.2]
- (8) Investigation of the Structural, Dielectric, Magnetic, and Magnetoelectric Properties of Nd-Substituted Sr₃Co₂Fe₂₄O₄₁ Z-Hexaferrite, Sukhbir Hooda, Dr Sajjan Dahiya, Rajesh Poonia, A. S. Maan, P. K. Saini, Srinibas Satapathy, Rahul Tripathi, [Anil Ohlan](#), *ECS Journal of Solid State Science and Technology*, (2023) 19. [I.F.- 2.2]

- (9) Enhanced magnetoelectric coupling in novel rare earth metal substituted Sr based Z-hexaferrites/P (VDF-HFP) composites, Sukhbir Singh, Pardeep Khichi, Sajjan Dahiya, Rajesh Punia, P. K. Saini, Srinibas Satapathy, Rahul Tripathi, [Anil Ohlan](#), *Ceramics International*, 49 (2023) 26135. [I.F.- 5.2]
- (10) A systematic study of physical properties of La substituted Sr₃Co₂Fe₂₄O₄₁ Z-hexaferrites, Sukhbir Singh, Pardeep Khichi, Sajjan Dahiya, Rajesh Punia, A. S. Maan, Rahul Tripathi, [Anil Ohlan](#), *Ceramics International*, 49 (2023) 4599. [I.F.- 5.2]
- (11) Investigation of electric transport in mixed conducting Na₂O modified zinc borate glasses for electrode material using broadband dielectric spectroscopy. Jyoti Ahlawat, Suman Pawaria, Preeti Redhu, Sajjan Dahiya, [Anil Ohlan](#), Rajesh Punia, A. S. Maan. *The Journal of Chemical Physics* 159 (2023) 104503. [I.F.- 4.4]
- (12) Optimization of synthesis parameters for Molybdenum Diselenide (MoSe₂) using Hydrothermal Method, Pardeep Khichi, Rahul Tripathi, [Anil Ohlan](#), *Energy Storage*, 5 (2023) e399. [I.F.- 3.2]
- (13) Rietveld refinement, Morphological, Optical and Photocatalytic Dye Degradation Studies of Pristine and Sr-Doped SnS₂ Hexagonal Nanoplates, Anjali Sharma, Ashima Makhija, Sajjan Dahiya, [Anil Ohlan](#), R. Punia, A. S. Maan, *Materials Research Bulletin*, 168 (2023) 112464. [I.F.- 5.4]
- (14) Correlation of dielectric, ferroelectric, and magnetic properties with structural changes in Cr doped BCT ceramics, Preeti Redhu, Preeti Sharma, Ashima Hooda, Anupinder Singh, [Anil Ohlan](#), Rajesh Punia, *Applied Physics A*, 129 (2023) 523. [I.F.- 2.7]
- (15) Glass transition and crystallization kinetics of lithium modified zinc borate semiconducting glasses by non-isothermal method, Suman Pawaria, Jyoti Ahlawat, Preeti Sharma, Sajjan Dahiya, [Anil Ohlan](#), R. Punia, A. S. Maan, *Ceramics International*, 49 (2023) 23276. [I.F.- 5.2]
- (16) Investigation of AC conductivity and dielectric relaxation of lithium modified zinc borate semiconducting glasses for energy storage applications, Suman Pawaria, Jyoti Ahlawat, Sajjan Dahiya, [Anil Ohlan](#), R. Punia, S. Murugavel, A. S. Maan, *Journal of Non-Crystalline Solids*, 620 (2023) 122592. [I.F.- 3.5]
- (17) Emerging Two-Dimensional Materials for Electromagnetic Interference Shielding Application, Suman Kumari, Jasvir Dalal, Vibhor Kumar, Anand Kumar, [Anil Ohlan](#), *International Journal of Molecular Sciences*, 24 (2023) 12267. [I.F.- 5.6]
- (18) Self-powered solar-blind UV photodetectors based on Zn: NiO/p-Si heterojunction devices, Sunil Agrohiya, Ravinder Singh, Sajjan Dahiya, Ishpal Rawal, [Anil Ohlan](#), R. Punia, A. S. Maan, *Applied Physics A*, 129 (2023) 233. [I.F.- 2.7]
- (19) Fabrication of p-ZnCo₂O₄/n-Si spinel heterojunction devices for self-powered ultraviolet photodetectors: Effect of Zn²⁺ concentration, Sunil Agrohiya, Ravinder Singh, Sajjan Dahiya, Ishpal Rawal, Amit Kumar, [Anil Ohlan](#), R. Punia, A. S. Maan, *Journal of Alloys and Compounds*, 968 (2023) 171855. [I.F.- 6.2]
- (20) Fabrication of ZnMn₂O₄ spinel thin film devices for solar-blind ultraviolet photodetectors: Effect of Zn²⁺ concentration, Sunil Agrohiya, Sajjan Dahiya, Ishpal Rawal, Parveen Kumar Goyal, [Anil Ohlan](#), Rajesh Punia, A. S. Maan, *Journal of Materials Science: Materials in Electronics*, 34 (2023) 1-21. [I.F.- 2.8]

- (21) Conducting polymer hydrogel based electrode materials for supercapacitor applications, Silki Sardana, Anjali Gupta, Kuldeep Singh, A. S. Maan, [Anil Ohlan](#), *Journal of Energy Storage*, 45 (2022) 103510. [I.F.- 9.4]
- (22) Design and synthesis of polyaniline/MWCNT composite hydrogel as a binder-free flexible supercapacitor electrode, Silki Sardana, Anjali Gupta, A. S. Maan, Sajjan Dahiya, Kuldeep Singh, [Anil Ohlan](#), *Indian Journal of Physics*, 96 (2022) 433. [I.F.- 2]
- (23) Unveiling the Surface Dominated Capacitive Properties in Flexible Ternary Polyaniline/NiFe₂O₄/Reduced Graphene Oxide Nanocomposites Hydrogel Electrode for Supercapacitor Applications, Silki Sardana, Kanika Aggarwal, Sanket Malik, Ayushi Saini, Sajjan Dahiya, Rajesh Punia, A. S. Maan, Kuldeep Singh, [Anil Ohlan](#), *Electrochimica Acta*, 434 (2022) 141324. [I.F.- 6.6]
- (24) Study of crystallization and glass transition kinetics of bismuth-modified zinc vanadate glasses by non-isothermal method, Suman Pawaria, Manju Bala, Harshvardhan Duhan, Nisha Deopa, Sajjan Dahiya, [Anil Ohlan](#), Rajesh Punia, A. S. Maan, *Journal of Thermal Analysis and Calorimetry*, 147 (2022) 13099. [I.F.- 4.4]
- (25) Structural and Optical characterization of Semiconducting Lithium Modified Zinc Borate Glassy System for UV Band Reject Filter, Suman Pawaria, Jyoti Ahlawat, Manju Bala, Sajjan Dahiya, [Anil Ohlan](#), R. Punia, A. S. Maan, *Journal of Molecular Structure*, 1270 (2022) 133836. [I.F.- 3.8]
- (26) Effect of mechanical milling on magnetic, dielectric and magneto-electric properties of Z-type (Ba, Sr) hexaferrites, Sushma Lather, Sukhbir Singh, Sajjan Dahiya, A. S. Maan, Rahul Singhal, Rahul Tripathi, [Anil Ohlan](#), *Journal of Alloys and Compounds*, 902 (2022) 163807. [I.F.- 6.2]
- (27) Microwave absorption performance of core-shell rGO/Ni_{0.5}Co_{0.5}Fe₂O₄@ PEDOT composite: An effective approach to reduce electromagnetic wave pollution, Suman Kumari, Jasvir Dalal, Anand Malik, [Anil Ohlan](#), *Advanced Engineering Materials*, 24 (2022) 2200635. [I.F.- 3.6]
- (28) Electrical conductivity and relaxation phenomena in Li₂O·B₂O₃ based glass and glass-ceramic: A comprehensive and comparative analysis, Sachin Kumar, Suman Kumari, Vibhor Kumar, Jasvir Dalal, Anand Kumar, [Anil Ohlan](#), *Journal of Physics and Chemistry of Solids*, 170 (2022) 110911. [I.F.- 4.0]
- (29) Binder-free polypyrrole/fluorinated graphene nanocomposite hydrogel as a novel electrode material for highly efficient supercapacitors, Anjali Gupta, Silki Sardana, Sajjan Dahiya, Rajesh Punia, A. S. Maan, Kuldeep Singh, Rahul Tripathi, [Anil Ohlan](#), *Applied Surface Science Advances*, 11 (2022) 100297. [I.F.- 6.2]
- (30) One pot synthesis and electromagnetic interference shielding behavior of reduced graphene oxide nanocomposites decorated with Ni_{0.5}Co_{0.5}Fe₂O₄ nanoparticles. Jasvir Dalal, Sanket Malik, Sajjan Dahiya, Rajesh Punia, Kuldeep Singh, A.S. Maan, S.K. Dhawan, [Anil Ohlan](#), *Journal of Alloys and Compounds* 887 (2021) 161472. [I.F.- 6.2]
- (31) Efficient Electrode Material based on Carbon Cloth Supported Polyaniline/Reduced Graphene Oxide Composites for Supercapacitor Application. A Gupta, [Anil Ohlan](#), K Singh, *Indian Journal of Pure & Applied Physics (IJPAP)* 59 (2021) 68-74. [I.F.- 0.7]

- (32) Structural, optical, thermal and other physical properties of Bi₂O₃ modified Lithium Zinc Silicate glasses. M Bala, S Pawaria, N Deopa, S Dahiya, [Anil Ohlan](#), R Punia, AS Maan, *Journal of Molecular Structure* 1234 (2021) 130160. [I.F.- 3.8]
- (33) Study of vibrational spectroscopy, linear and nonlinear optical properties of borate-modified tellurium–silica–bismuthate glasses. N Berwal, N Ahlawat, D Mohan, [Anil Ohlan](#), R Punia, N Kishore. *Indian Journal of Physics*, 94 (2020) 1643-1652. [I.F.- 2.0]
- (34) Nanostructured Polyaniline/Graphene/Fe₂O₃ Composites Hydrogel as a High-Performance Flexible Supercapacitor Electrode Material. Anjali Gupta, Silki Sardana, Jasvir Dalal, Sushma Lather, Anup S Maan, Rahul Tripathi, Rajesh Punia, Kuldeep Singh, [Anil Ohlan](#). *ACS Applied Energy Materials*, 3 (2020) 6434-6446. [I.F.- 6.4]
- (35) Effect of replacement of Bi₂O₃ by Li₂O on structural, thermal, optical and other physical properties of zinc borate glasses. Manju Bala, Sunil Agrohiya, Sajjan Dahiya, [Anil Ohlan](#), R Punia, AS Maan. *Journal of Molecular Structure*, 1219 (2020) 128589. [I.F.- 3.8]
- (36) Improved Electromagnetic Interference Shielding Response of Polyaniline Containing Magnetic Nano-ferrites. Sumit Kumar, [Anil Ohlan](#), Prashant Kumar, Vivek Verma. *Journal of Superconductivity and Novel Magnetism*, 33 (2020)1187–1198. [I.F.- 1.8]
- (37) Reduced Graphene Oxide Functionalized Strontium Ferrite in Poly (3, 4-ethylenedioxythiophene) Conducting Network: A High-Performance EMI Shielding Material. Jasvir Dalal, Sushma Lather, Anjali Gupta, Rahul Tripathi, Anup Singh Maan, Kuldeep Singh, [Anil Ohlan](#). *Advanced Materials Technologies*, 4 (2019) 1900023. [I.F.- 6.8]
- (38) PbTiO₃–Ni_{0.5}Co_{0.5}Fe₂O₄ multiferroic nanocomposites: Impact of ball-milling on dielectric, magnetic and ferroelectric properties. Sushma Lather, Jasvir Dalal, Anjali Gupta, Sukhbir Singh, DP Singh, Sajjan Dahiya, A S Maan, Rahul Tripathi, [Anil Ohlan](#). *Ceramics International* 45 (2019) 4957. [I.F.- 5.2]
- (39) Influence of hydrostatic pressure and spin orbit interaction on optical properties in quantum wire. Sheetal Antil, Manoj Kumar, Siddhartha Lahon, Sajjan Dahiya, [Anil Ohlan](#), Rajesh Punia, A. S. Maan, *Physica B: Condensed Matter* 552 (2019) 202. [I.F.- 2.8]
- (40) In situ Decoration of Silver Nanoparticles on Single-walled Carbon Nanotubes by Microwave Irradiation for Enhanced and Durable Anti-bacterial Finishing on Cotton Fabric. Anil Kumar, Jasvir Dalal, Sajjan Dahiya, Rajesh Punia, KD Sharma, [Anil Ohlan](#), A. S. Maan, *Ceramics International* 45 (2019) 1011. [I.F.- 5.2]
- (41) EMI shielding properties of laminated graphene and PbTiO₃ reinforced poly (3, 4-ethylenedioxythiophene) nanocomposites, Jasvir Dalal, Sushma Lather, Anjali Gupta, Sajjan Dahiya, A. S. Maan, Kuldeep Singh, SK Dhawan, [Anil Ohlan](#). *Composites Science and Technology* 165 (2018) 222. [I.F.- 9.1]
- (42) Effect of mechanical milling on structural, dielectric and magnetic properties of BaTiO₃–Ni_{0.5}Co_{0.5}Fe₂O₄ multiferroic nanocomposites. Sushma Lather, Anjali Gupta, Jasvir Dalal, Vivek Verma, Rahul Tripathi, [Anil Ohlan](#). *Ceramics International* 43 (2017), 3246-3251[I.F.- 5.2]
- (43) Poly (3, 4-ethylene dioxythiophene) laminated Reduced Graphene Oxide composites for Effective Electromagnetic Interference shielding. Jasvir Dalal, Anjali Gupta, Sushma Lather,

- Kuldeep Singh, S. K. Dhawan, [Anil Ohlan](#), *Journal of Alloys and Compound* 682 (2016) 52-60 [I.F.- 6.2]
- (44) Structural, magnetic and ferroelectric properties of Pr doped multiferroics bismuth ferrites. V Verma, A Beniwal, [Anil Ohlan](#), R Tripathi, *Journal of Magnetism and Magnetic Materials* 394 (2015) 385-390. [I.F.- 2.7]
- (45) In Situ Synthesis of Polypyrrole- γ -Fe₂O₃-Fly Ash Nanocomposites for Protection against EMI Pollution. Swati Varshney, [Anil Ohlan](#), V. K. Jain, V. P. Dutta, S. K. Dhawan, *Industrial & Engineering Chemistry Research* 53 (2014), 14282- 14290. [I.F.- 4.2]
- (46) Synthesis of ferrofluid based nano architecture polypyrrole composites and its application for electromagnetic shielding. Swati Varshney, [Anil Ohlan](#), V. K. Jain, V. P. Dutta, and S. K. Dhawan. *Materials Chemistry and Physics* 143 (2014) 806-813. [I.F.- 4.6]
- (47) Nanostructured graphene/Fe₃O₄ incorporated polyaniline as a high performance shield against electromagnetic pollution. Kuldeep Singh, [Anil Ohlan](#), Viet Hung Pham, Balasubramanian R., Swati Varshney, Jinhee Jang, Seung Hyun Hur, Won Mook Choi, Mukesh Kumar, S. K. Dhawan, Byung-Seon Kong and Jin Suk Chung, *Nanoscale* 5 (2013) 2411-2420. [I.F.- 6.7]
- (48) Robust Multifunctional Free Standing Polypyrrole Sheet for Electromagnetic Shielding. Swati Varshney, [Anil Ohlan](#), Kuldeep Singh, V. K. Jain, V. P. Dutta, and S. K. Dhawan. *Science of Advanced Materials* 5 (2013) 881-890. [I.F.- 0.9]
- (49) Synthesis, characterization and surface properties of Fe₂O₃ decorated ferromagnetic polypyrrole-nanocomposites Swati Varshney, Kuldeep Singh, [Anil Ohlan](#), V. K. Jain, V. P. Dutta and S. K. Dhawan. *Journal of Alloys and Compounds*, 538 (2012), 107-114. [I.F.- 6.2]
- (50) Thermal, dielectric and microwave absorption properties of polyaniline-CoFe₂O₄ nanocomposites. Namita Gandhi, Kuldeep Singh, [Anil Ohlan](#), D. P. Singh, S K Dhawan. *Composites Science & Technology* 71 (2011) 1754-1760. [I.F.- 9.1]
- (51) Microwave absorption properties of NiCoFe₂O₄-graphite embedded poly(o-phenetidine) nanocomposites. [Anil Ohlan](#), Kuldeep Singh, Namita Gandhi, Amita Chandra, S. K. Dhawan. *AIP Advances* 1 (2011) 032157 [I.F.- 1.6]
- (52) Microwave absorption behavior of core-shell structured poly (3,4-ethylenedioxy thiophene)-barium ferrite nanocomposites. [Anil Ohlan](#), Kuldeep Singh, Amita Chandra, S. K. Dhawan. *ACS Applied Materials and Interfaces* 2 (2010) 927-933. [I.F.- 9.5]
- (53) Synthesis of conducting ferromagnetic nanocomposite with improved microwave absorption properties. Kuldeep Singh, [Anil Ohlan](#), A. K. Bakhshi, S. K. Dhawan. *Material Chemistry and Physics* 119 (2010) 201-207. [I.F.- 4.6]
- (54) Shielding and dielectric properties of sulfonic acid doped π -conjugated polymer in 8.2-12.4 GHz frequency range. [Anil Ohlan](#), Kuldeep Singh, S. K. Dhawan. *Journal of Applied Polymer Science* 115 (2010) 498-503. [I.F.- 3.0]
- (55) Conjugated polymer nanocomposites: Synthesis, dielectric and microwave absorption studies. [Anil Ohlan](#), Kuldeep Singh, Amita Chandra, V. N. Singh, S. K. Dhawan. *Journal of Applied Physics* 106 (2009) 044305. [I.F.- 3.2]

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- (56) Conducting polymer embedded with nanoferrite and Titanium dioxide nanoparticles for microwave absorption. S. K. Dhawan, Kuldeep Singh, A. K. Bakhshi, [Anil Ohlan](#). *Synthetic Metals* 159 (2009) 2259-2262. [I.F.- 4.4]
- (57) Microwave absorption properties of conducting polymer composite with barium ferrite nanoparticles in 12.4-18 GHz. [Anil Ohlan](#), Kuldeep Singh, Amita Chandra, S. K. Dhawan. *Applied Physics Letter* 93 (2008) 053114. [I.F.- 4.0]
- (58) Dielectric and magnetic properties of conducting ferromagnetic composite of polyaniline with γ -Fe₂O₃ nanoparticles. Kuldeep Singh, [Anil Ohlan](#), R. K. Kotnala, A. K. Bakhshi, S. K. Dhawan. *Material Chemistry and Physics* 112 (2008) 651-658. [I.F.- 4.6]
- (59) Conducting ferromagnetic copolymer-complex of aniline and 3,4-ethylene dioxy thiophene containing nano-crystalline barium ferrite particles. [Anil Ohlan](#), Kuldeep Singh, Amita Chandra, S. K. Dhawan. *Journal of Applied Polymer Science* 108 (2008) 2218–2225. [I.F.- 3.0]
- (60) Poly (3, 4-ethylene dioxythiophene) γ -Fe₂O₃ polymer composite: Superparamagnetic behavior and variable range hopping 1–D conduction mechanism – synthesis & characterization. Kuldeep Singh, [Anil Ohlan](#), Parveen Saini, S. K. Dhawan. *Polymers for Advanced Technologies* 19 (2008) 229–236. [I.F.- 3.348]

PATENT:

- ✚ Conducting Copolymer Ferromagnetic Composite and a Process for the Preparation thereof S. K. Dhawan, Kuldeep Singh, Nikhil Sobti, [Anil Ohlan](#), Parveen Saini, Beena Gupta, R. P. Pant, R. K. Kotnala, Hari Kishan, and P. C. Kothari
US Patent: US Patent; US 8,277,690 B2, Publication Date: October 2, 2012

BOOK CHAPTERS:

- ✚ **Smart Materials Design for Electromagnetic Interference Shielding Applications**, Editors: Sundeep K. Dhawan, Avnish Pratap Singh, [Anil Ohlan](#), Kuldeep Singh Kakran and Pradeep Sambyal. Bentham Science Publishers, Sharjah, U.A.E, 2022. ISBN: 978-981-5036-43-5.
- ✚ Electromagnetic Interference Shielding and its Evaluation by Avnish Pratap Singh, Monika Mishra, [Anil Ohlan](#), S. K. Dhawan, in: **Smart Materials Design for Electromagnetic Interference Shielding Applications**, Bentham Science Publishers, Sharjah, U.A.E, 2022: pp. 1–58. ISBN: 978-981-5036-43-5.
- ✚ Nanostructured Two-Dimensional (2D) Materials as Potential Candidates for EMI Shielding by Ayushi Saini, [Anil Ohlan](#), S. K. Dhawan, Kuldeep Singh in: **Smart Materials Design for Electromagnetic Interference Shielding Applications**, Bentham Science Publishers, Sharjah, U.A.E, 2022: pp. 465–526. ISBN: 978-981-5036-43-5.
- ✚ Synthesis of Poly (3, 4-ethylene dioxythiophene) Conducting Polymer Composites for EMI Shielding Applications by M. Farukh, Jasvir Dalal, [Anil Ohlan](#), S. K. Dhawan in: **Smart Materials Design for Electromagnetic Interference Shielding Applications**, Bentham Science Publishers, Sharjah, U.A.E, 2022: pp. 213–270. ISBN: 978-981-5036-43-5.
- ✚ Designing of Conducting Polyaniline composites for EMI Shielding by Kuldeep Singh,

[Anil Ohlan](#), S.K. Dhawan, in “**Trends in Polyaniline Research**” Al-Nakib Chowdhury, Takeo Ohsaka, Aminur Rahman and Mominul Islam (ED.) Nova Science Publishers Inc. New York USA (2013), ISBN: 978- 1-62808-427-6.

✚ Polymer-Graphene Nanocomposites: Preparation, Characterization, Properties, and Applications by Kuldeep Singh, [Anil Ohlan](#) and S.K. Dhawan in “**Nanocomposites – New Trends and Developments**”, Dr. Farzad Ebrahimi (Ed.), InTech (2012), ISBN: 978-953-51-0762-0.

✚ Designing of Nano Composites of Conducting Polymers for EMI Shielding, S.K. Dhawan, [Anil Ohlan](#), Kuldeep Singh in “**Advances in Nanocomposites – Synthesis, Characterization and Industrial Applications**” Boreddy Reddy (Ed.) , InTech (2012), ISBN: 978-953-307-165-7.

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