

r teacher of the institution in the Journals notified by UGC care list during the last five years (20)  
 by the faculty of the Institution in the Journals notified by UGC care list

Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Scopus citation index	WOS citation index	impact factor	h-index of the author scopus/WOS
Modified atomic number dependence of total bremsstrahlung spectra in compounds	S.J. Sharma, T. Singh, D. Singh, A. Singh, A.S. Dhaliwal		Turkish Journal of Physics (SCIE)	2019	1300-0101	N.A	N.A	0.692	A.S. Dhaliwal:Scopus=18, WOS=06
Studies of total bremsstrahlung spectra in the oxides of lanthanides	Singh, Amrit; Singh, Tajinder; Dhaliwal, A. S.	Physics	RADIATION PHYSICS AND CHEMISTRY	2017	0969-806X	6	2	2.776	
Total bremsstrahlung spectra of thick lead compounds produced by Sr-90 beta emitter in photon energy region of 10-100 keV	Sharma, Suhansar Jit; Singh, Tajinder; Singh, Doordarshi; Singh, Amrit; Dhaliwal, A. S.	Physics	NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	2017	0168-583X	2	2	1.279	
Thick target total bremsstrahlung spectra of lead compounds in the photon energy region 1-10 keV by Sr-90 beta particles	Sharma, Suhansar Jit; Singh, Tajinder; Singh, Doordarshi; Singh, Amrit; Dhaliwal, A. S.	Physics	APPLIED RADIATION AND ISOTOPES	2017	0969-8043	0	1	1.513	
Synthesis, characterization and swelling behavior of silver nanoparticles containing superabsorbent based on grafted copolymer of polyacrylic acid/Guar gum	Singh, Jagdeep; Dhaliwal, A. S.	Physics	VACUUM	2018	0042-207X	47	33	4.11	
Absorption edge parameters of the L-III edge for compounds of Hg, Tl, Pb and Bi using EDXRF technique	Singh, Gurinderjeet; Singh, Amrit; Gupta, Manoj Kumar; Dhaliwal, A. S.; Kahlon, K. S.	Physics	RADIATION PHYSICS AND CHEMISTRY	2018	0969-806X	4	3	2.776	
Novel Green Synthesis and Characterization of the Antioxidant Activity of Silver Nanoparticles Prepared from Nepeta leucophylla Root Extract	Singh, Jagdeep; Dhaliwal, Amarjit Singh	Physics	ANALYTICAL LETTERS	2019	1532-236X	46	36	2.267	

Plasmon-induced photocatalytic degradation of methylene blue dye using biosynthesized silver nanoparticles as photocatalyst	Singh, Jagdeep; Dhaliwal, A. S.	Physics	ENVIRONMENTAL TECHNOLOGY	2020	1479487X	45	37	3.475
Water retention and controlled release of KCl by using microwave-assisted green synthesis of xanthan gum-cl-poly (acrylic acid)/AgNPs hydrogel nanocomposite	Singh, Jagdeep; Dhaliwal, A. S.	Physics	POLYMER BULLETIN	2020	0170-0839 (print); 1436-2449 (web)	19	17	2.845
Controlled release of amoxicillin and antioxidant potential of gold nanoparticles-xanthan gum/poly (Acrylic acid) biodegradable nanocomposite	Singh, Jagdeep; Kumar, Sachin; Dhaliwal, A. S.	Physics	JOURNAL OF DRUG DELIVERY SCIENCE AND TECHNOLOGY	2020	1773-2247	21	14	5.062
Phase transformation behavior of Ca-doped zirconia sintered at different temperatures	Kumar, Ankit; Kumar, Pravin; Dhaliwal, A. S.	Physics	JOURNAL OF THE KOREAN CERAMIC SOCIETY	2022	2234-0491(electronic) , 1229-7801(print)	5	9	2.506
Effective Removal of Methylene Blue Dye Using Silver Nanoparticles Containing Grafted Polymer of Guar Gum/Acrylic Acid as Novel Adsorbent	Singh, Jagdeep; Dhaliwal, A. S.	Physics	JOURNAL OF POLYMERS AND THE ENVIRONMENT	2021	1572-8919 (electronics), 1566-2543(print)	13	9	4.705
On the use of flyash-lime-gypsum (FaLG) bricks in the storage facilities for low level nuclear waste	Sidhu, Baltej Singh; Dhaliwal, A. S.; Kahlon, K. S.; Singh, Suhkpal	Physics	NUCLEAR ENGINEERING AND TECHNOLOGY	2022	1738-5733	5	4	2.817
Structural, morphological properties and phase stabilisation criteria of the calcia-zirconia system	Kumar, Ankit; Kumar, Pravin; Dhaliwal, A. S.	Physics	ADVANCES IN APPLIED CERAMICS	2021	1743-6753	3	3	2.475

Electrochemical and photocatalytic degradation of methylene blue by using rGO/AgNWs nanocomposite synthesized by electroplating on stainless steel	Singh, Jagdeep; Dhaliwal, A. S.	Physics	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	2022	0022-3697	9	2	4.383	M.M. Sinha: Scopus=12, WOS=7
Thermally induced phase transformation and structural modifications of E-beam evaporated zirconia thin films	Kumar, Ankit; Kumar, Pravin; Dhaliwal, A. S.	Physics	PHASE TRANSITIONS	2022	1029-0338	1	1	1.529	
Structural, morphological, and phase transformation studies of 1.4 MeV Kr ion beam irradiated zirconia thin films	Kumar, Ankit; Singh, S. K.; Kumar, Pravin; Dhaliwal, A. S.	Physics	JOURNAL OF MATERIALS RESEARCH	2022	2044-5329(electronics), 0884-2914(print)	0	0	2.909	
Tuning the optical properties of Fe-Au core-shell nanoparticles with spherical and spheroidal nanostructures	Bhatia, Pradeep; Verma, S. S.; Sinha, M. M.	Physics	PHYSICS LETTERS A	2019	0375-9601	24	16	2.707	
A First Principle Study of Structural, Electronic, and Vibrational Properties of LuPdBi Half-Heusler Alloy	Gupta, Yuhit; Sinha, Murari Mohan; Verma, Suram Singh	Physics	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	2019	1521-3951	17	17	1.71	
Optical Properties Simulation of Magneto-Plasmonic Alloys Nanostructures	Bhatia, Pradeep; Verma, S. S.; Sinha, M. M.	Physics	PLASMONICS	2019	1557-1955	11	10	2.726	
Size-Dependent RIS and FOM of Ag-Fe and Au-Fe Bimetallic Alloys in Triangular Prism: a DDA Study	Bhatia, Pradeep; Verma, S. S.; Sinha, M. M.	Physics	PHOTONIC SENSORS	2019	1674-9251	3	3	2.814	
Lattice dynamics of novel Heusler alloys MnY(2)Z (Z = Al and Si)	Gupta, Yuhit; Sinha, M. M.; Verma, S. S.	Physics	PHYSICA B-CONDENSED MATTER	2020	0921-4526	2	12	2.988	

Theoretical study of structural, electronic and lattice dynamical properties of novel AlNiP half-Heusler alloy	Gupta, Yuhit; Sinha, M. M.; Verma, S. S.	Physics	PHILOSOPHICAL MAGAZINE	2020	1478-6435 (print) 1478-6443 (web)	2	7	1.948
On the potential for superconductivity in ZrX (X = S and Te): a first-principles study	Gupta, Yuhit; Sinha, M. M.; Verma, S. S.	Physics	PHYSICA C- SUPERCONDUCTIVITY AND ITS APPLICATIONS	2020	0921-4534	10	5	1.534
Magneto-plasmonic Co@M (M = Au/Ag/Au-Ag) core-shell nanoparticles for biological imaging and therapeutics	Bhatia, Pradeep; Verma, S. S.; Sinha, M. M.	Physics	JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER	2020	0022-4073	1	7	2.342
Size-dependent optical response of complex CoFe@Ag & CoFe@Au core-shell nanospheres	Bhatia, Pradeep; Verma, S. S.; Sinha, M. M.	Physics	CHEMICAL PHYSICS LETTERS	2020	0009-2614	6	6	2.719
Tunable plasmonic properties of elongated bimetallic alloys nanoparticles towards deep UV-NIR absorbance and sensing	Bhatia, Pradeep; Verma, S. S.; Sinha, M. M.	Physics	JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER	2020	0022-4073	8	6	2.342
Tunable optical properties of Ni-Ag and Ni-Au nanoparticles in magneto-plasmonic nanostructures	Bhatia, Pradeep; Verma, S. S.; Sinha, M. M.	Physics	OPTICAL AND QUANTUM ELECTRONICS	2020	0306-8919	5	5	2.794
Tunable optical response of Fe-Ag nanoparticles in core-Shell nanostructures	Bhatia, Pradeep; Verma, S. S.; Sinha, M. M.	Physics	JOURNAL OF ELECTROMAGNETIC WAVES AND APPLICATIONS	2020	09205071, 15693937	1	1	1.438
Investigations of mechanical and thermoelectric properties of 'AlNiP' novel half-Heusler alloy	Gupta, Yuhit; Sinha, M. M.; Verma, S. S.	Physics	MATERIALS CHEMISTRY AND PHYSICS	2021	0254-0584	0	9	4.778
Theoretical study of thermo-dynamical and thermoelectric properties of novel half-Heusler alloys AlNiAs and AlNiSb	Gupta, Yuhit; Sinha, M. M.; Verma, S. S.	Physics	MATERIALS TODAY COMMUNICATIONS	2021	2352-4928	7	7	3.662

First-principles investigation on the electronic, mechanical and lattice dynamical properties of novel AlNiX (X = As and Sb) half-Heusler alloys	Gupta, Yuhit; Sinha, M. M.; Verma, S. S.	Physics	MATERIALS TODAY COMMUNICATIONS	2021	2352-4928	11	8	3.662
Exploring the structural, elastic, lattice dynamical stability and thermoelectric properties of semiconducting novel quaternary Heusler alloy LiScPdPb	Gupta, Yuhit; Sinha, M. M.; Verma, S. S.	Physics	JOURNAL OF SOLID STATE CHEMISTRY	2021	0022-4596	3	6	3.656
Optical absorption analysis of core-shell type Ni@Ag/Au & NiFe@Ag/Au magneto-plasmonic nanostructures	Bhatia, Pradeep; Verma, S. S.; Sinha, M. M.	Physics	JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER	2021	0022-4073	5	5	2.342
An Ab Initio study of electronic, mechanical, thermoelectric and vibrational properties of Dirac Semimetals Ca <sub>3</sub> PbO and Ca <sub>3</sub> SnO	Kaur, Tavneet; Sinha, M. M.	Physics	MATERIALS TODAY COMMUNICATIONS	2021	2352-4928	9	3	3.662
Effect of spin-orbital coupling on the electronic, mechanical, thermoelectric, and vibrational properties of XPtBi (X = Sc and Y): A first-principles study	Goyal, Megha; Sinha, M. M.	Physics	JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS	2021	0022-3697	7	4	4.383
Revealing the trend of structural, electronic, mechanical and vibrational properties in Co <sub>2</sub> VX (X= Si, Ge, Sn)	Kaur, Tavneet; Sinha, M. M.	Physics	JOURNAL OF SOLID STATE CHEMISTRY	2021	0022-4596	3	1	3.656
First-principle study of structural, electronic, thermoelectric and vibrational properties of Co-2-based Weyl semimetal VCo <sub>2</sub> Al	Kaur, Tavneet; Sinha, Murari Mohan	Physics	BULLETIN OF MATERIALS SCIENCE	2021	0250-4707 (print); 0973-7669 (web)	0	0	1.878

Effect of pressure on dynamical stability, electronic and thermoelectric properties of equiatomic quaternary Heusler alloy LaCoTiGe	Gupta, Yuhit; Sinha, M. M.; Verma, S. S.	Physics	MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING	2022	1369-8001	2	2	4.644	
Effect of spin-polarization on structural, electronic, and lattice dynamical properties of 'MnY <sub>2</sub> Ga' Full Heusler alloy	Gupta, Yuhit; Sinha, M. M.; Verma, S. S.	Physics	PHYSICA B-CONDENSED MATTER	2022	0921-4526	0	1	2.988	
Probing the elastic, mechanical and thermodynamic properties of Weyl semimetals ZrX (X=S and Te)	Gupta, Yuhit; Sinha, M. M.; Verma, S. S.	Physics	PRAMANA-JOURNAL OF PHYSICS	2022	0973-7111	0	0	2.699	
Effect of spin orbit coupling on antiperovskites: Sr <sub>3</sub> BO (B = Pb, Sn)	Kaur, Tavneet; Sinha, M. M.	Physics	PHYSICA SCRIPTA	2022	0031-8949	0	0	3.081	
Ab-initio study of mechanical and thermoelectric properties of topological semimetal: LaAuPb	Goyal, Megha; Sinha, M. M.	Physics	PHYSICA SCRIPTA	2022	0031-8949	0	0	3.081	
Enhanced efficiency of thin film GaAs solar cells with plasmonic metal nanoparticles	Singh, Gurjit; Verma, S. S.	Physics	ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS	2018	1556-7036	28	21	2.902	S.S.Verma: Scopus=12, WOS:09
Plasmon enhanced light trapping in thin film GaAs solar cells by Al nanoparticle array	Singh, Gurjit; Verma, S. S.	Physics	PHYSICS LETTERS A	2019	0375-9601	2	33	2.707	
Tuning the optical properties of Fe-Au core-shell nanoparticles with spherical and spheroidal nanostructures	Bhatia, Pradeep; Verma, S. S.; Sinha, M. M.	Physics	PHYSICS LETTERS A	2019	0375-9601	24	16	2.707	

A First Principle Study of Structural, Electronic, and Vibrational Properties of LuPdBi Half-Heusler Alloy	Gupta, Yuhit; Sinha, Murari Mohan; Verma, Suram Singh	Physics	PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS	2019	1521-3951	17	17	1.71	
Design and analysis of thin film GaAs solar cells using silver nanoparticle plasmons	Singh, Gurjit; Verma, S. S.	Physics	PHOTONICS AND NANOSTRUCTURES-FUNDAMENTALS AND APPLICATIONS	2019	1569-4410	18	14	3.662	
Size dependent plasmonic properties of Ga@Ag & Cs@Ag liquid-metal nanospheres	Bhardwaj, Akanksha; Verma, S. S.	Physics	OPTICS COMMUNICATIONS	2019	0030-4018.	9	7	2.335	
Enhanced photocurrent in thin-film GaAs solar cells with embedded Al nanoparticles	Singh, Gurjit; Sekhon, Jagmeet Singh; Verma, S. S.	Physics	ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS	2020	1556-7036	13	14	2.902	
Size-dependent optical response of complex CoFe@Ag & CoFe@Au core-shell nanospheres	Bhatia, Pradeep; Verma, S. S.; Sinha, M. M.	Physics	CHEMICAL PHYSICS LETTERS	2020	0009-2614	6	6	2.719	
Plasmonic periodic nanostructures for enhanced photovoltaic response in thin film GaAs solar cells	Singh, Gurjit; Verma, Suram S.	Physics	OPTICAL ENGINEERING	2020	0091-3286 (print) 1560-2303 (web)	4	3	0	
Plasmonic Effects of Al Nanoparticles Embedded and Non-embedded in Thin Film GaAs Solar Cells with Ta2O5 Antireflective Coating	Singh, Gurjit; Sekhon, Jagmeet Singh; Verma, S. S.	Physics	PLASMONICS	2021	1557-1955	6	4	2.726	
Theoretical study on plasmonic applications of Gallium alloy (GaX, X = Ag, Al, Hg and In) nanospheres and nanoshells	Bhardwaj, Akanksha; Verma, S. S.	Physics	JOURNAL OF QUANTITATIVE SPECTROSCOPY & RADIATIVE TRANSFER	2022	0022-4073	0	0	2.342	
Measurement of L-III jump ratio, jump factor and related parameters for Pt and Tl	Singh, Gurinderjeet; Singh, Amrit; Gupta, Manoj Kumar; Kahlon, K. S.; Dhaliwal, A. S.	Physics	JOURNAL OF ALLOYS AND COMPOUNDS	2016	0925-8388	3	1	6.371	K.S.Kahlon: scopus =11, WOS-02

Absorption edge parameters of the L-III edge for compounds of Hg, Tl, Pb and Bi using EDXRF technique	Singh, Gurinderjeet; Singh, Amrit; Gupta, Manoj Kumar; Dhaliwal, A. S.; Kahlon, K. S.	Physics	RADIATION PHYSICS AND CHEMISTRY	2018	0969-806X	2	3	2.776		
On the use of flyash-lime-gypsum (FaLG) bricks in the storage facilities for low level nuclear waste	Sidhu, Baltej Singh; Dhaliwal, A. S.; Kahlon, K. S.; Singh, Suhkpal	Physics	NUCLEAR ENGINEERING AND TECHNOLOGY	2022	1738-5733	5	4	2.817		
Synthesis and characterization of titanium doped barium ferrite and effects of doping on electrical and magnetic properties of the compound	S.S. Ghumman		FERROELECTRICS	2017	150193	5	5	0.695	Scopus:05, WOS=04	
Probing swift heavy ion irradiation damage in Nd-doped zirconolite	S.S. Ghumman		NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS	2019	0168-583X.	2	1	1.279		
Phase analysis and reduction behaviour of Ce dopant in zirconolite	S.S. Ghumman		JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY	2019	0236-5731	6	4	1.754		
Structural investigation of Nd-zirconolite irradiated with He+ ions	S.S. Ghumman		JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY	2020	0236-5731	2	1	1.754		
Structural and electronic behavior of yttrium doped zirconolite ceramic; a potential waste form for burning minor actinides	S.S. Ghumman		PHYSICA SCRIPTA	2022		1	1	3.081		
Dielectric characterization of rapeseed (Brassica napus L.) from 10 to 3000 MHz	N Bansal, AS Dhaliwal, KS Mann	Physics	Biosystems Engineering	2016	1537-5110.	28	16	5.002		K.S.Mann: Scopus: 11 , WOS=08; P.Kaur Socpus:25 , WOS:04

Performance of high temperature open-ended coaxial probe for dielectric properties of high loss food materials in frequency range 10-200 MHz	P Pankaj, PK PrachiPalta, KS Mann	Physics	Solid State Technology	2020	2162-8769 (print); 2162-8777 (web)	0	N.A	0	
Dielectric Properties of Soils Affected by Sewage Waste Pollution	P Palta, P Kaur, KS Mann	Physics	ECS Transactions	2022	1938-5862	0	N.A	0.521	
Dielectric behavior of soil as a function of frequency, temperature, moisture content and soil texture: a deep neural networks based regression model	P Palta, P Kaur, KS Mann	Physics	Journal of Microwave Power and Electromagnetic Energy	2022	0832-7823	0	0	1.85	
Dielectric properties of eggshell powder at 2.45 and 5.8 GHz relevant to dielectric heating	P Pankaj, P Kaur, KS Mann	Physics	Journal of Microwave Power and Electromagnetic Energy	2022	0832-7823	0	0	1.85	
Frequency, Temperature and Moisture Dependent Dielectric Properties of Chicken Manure Relevant to Radio frequency/Microwave Drying	P Pankaj, P Kaur, KS Mann	Physics	Poultry Science Journal	2021	0032-5791	0	N.A	3.196	
Dielectric Properties of Soils of India at Radio and Microwave Frequencies: A Review	P Palta, P Pankaj, P Kaur, KS Mann	Physics	ECS Transactions	2022	1938-5862	0	N.A	0.521	
Combination and QCD analysis of charm and beauty production cross-section measurements in deep inelastic ep scattering at HERA			EUROPEAN PHYSICAL JOURNAL C	2018	1434-6044		42	4.59	
Limits on contact interactions and leptiquarks at HERA			PHYSICAL REVIEW D	2019	2470-0010		12	5.296	

Two-particle azimuthal correlations as a probe of collective behaviour in deep inelastic ep scattering at HERA	P. Kaur with ZEUS Collaboration	Physics	JOURNAL OF HIGH ENERGY PHYSICS	2020	1126-6708	9	11	6.379	
Further studies of isolated photon production with a jet in deep inelastic scattering at HERA			JOURNAL OF HIGH ENERGY PHYSICS	2018	1126-6708		4	6.379	
Charm production in charged current deep inelastic scattering at HERA			JOURNAL OF HIGH ENERGY PHYSICS	2019	1126-6708	5	3	6.379	
Studies of the diffractive photoproduction of isolated photons at HERA			PHYSICAL REVIEW D	2017	2470-0010		3	5.296	
Impact of jet-production data on the next-to-next-to-leading-order determination of HERAPDF2.0 parton distributions			EUROPEAN PHYSICAL JOURNAL C	2022	1434-6044	1	2	4.59	
Study of proton parton distribution functions at high x using ZEUS data			PHYSICAL REVIEW D	2020	2470-0010	2	1	5.296	
Azimuthal correlations in photoproduction and deep inelastic ep scattering at HERA			JOURNAL OF HIGH ENERGY PHYSICS	2021	1126-6708	0	0	6.379	
Evidence of finite magneto-electric coupling in SmFeO <sub>3</sub> -PbTiO <sub>3</sub> solid solutions			Kanika Aggarwal	Physics	Journal of Magnetism and Magnetic Materials	2021	0304-8853 (print); 1873-4766 (web)	0	
A comparative study of structural and multiferroic properties of Ca, Sr and Ba doped 0.2BiFeO <sub>3</sub> -0.8PbTiO <sub>3</sub> solid solutions	Kanika Aggarwal	Physics	Materials Characterization	2021	1044-5803	0	0	4.537	

Hierarchical three dimensional polyaniline/N-doped graphene nanocomposite hydrogel for energy storage applications	Kanika Aggarwal	Physics	Energy storage, Willey	2021	2578-4862	N.A.	N.A.	0
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