

Curriculum vitae

Dr. Vikas Anand

Personal Details

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Citizenship India

Professional Qualifications

Ph.D in Physics
NET –JRF

Employment History

05 Years teaching experience till 2022

Personal Distinctions

1. Research Fellowship from UGC (University Grant Commission) as senior research fellow(SRF).
2. Research Fellowship from UGC (University Grant Commission) as junior research fellow(JRF).
3. National Eligibility Test (NET) in Physical Sciences conducted by CSIR-UGC 2012.
4. **BEST POSTER** Award in “60th DAE Solid State Physics Symposium” at Amity University, India.
5. **BEST POSTER** Award at “Current Advances in Physical Sciences” at Khalsa College Amritsar
6. Life Time member of Society for Biomaterials & Artificial Organs (India).

Invited Seminars and Invited Conference Presentations (last 5 years)

Professional Contributions (last 5 years)

- Convener, 1st National Conference on Recent Advances in Sciences 2019

Teaching

Lecture in Department of Physics, Guru Nanak Dev University Amritsar, Punjab (India)
2016-2017

Assistant Professor in Physics at Thakur PG College, Dhaliara (H.P.) Indian

Doctoral Thesis Supervision

nil

University Administration----NA

Research Projects and Income---Nil

Publications

S.NO.	TITLE	YEAR
1	<u>Solar power energy derived from nanotools and devices</u> S Kumar, V Anand, U Jabeen, D Pathak Nano Tools and Devices for Enhanced Renewable Energy, 473-503	2021
2	<u>Elucidating the role of size of hydroxyl apatite particles toward the development of competent antiosteoporotic bioceramic materials: <i>In vitro</i> and <i>in vivo</i> studies</u> K Kaur, KJ Singh, V Anand, G Bhatia, AP Singh, M Kaur Journal of Biomedical Materials Research Part A 107 (8), 1723-1735	2019
3	<u>Gamma ray shielding properties at 129.5 MBq and structural investigations of the Bi₂O₃-B₂O₃-K₂O-Li₂O-V₂O₅ glass system</u> M Dogra, KJ Singh, K Kaur, V Anand Physics and Chemistry of Glasses-European Journal of Glass Science and ...	2018
4	<u>Investigation of the effect of doping of Cr₂O₃ on bioactivity properties of the SiO₂-CaO-P₂O₅ bioceramics</u> N Sarin, KJ Singh, K Kaur, V Anand, R Kaur, J Singh AIP Conference Proceedings 1953 (1), 090073	2018
5	<u>Investigation of gamma ray shielding, structural and dissolution rate properties of Bi₂O₃-BaO-B₂O₃-Na₂O glass system</u> M Dogra, KJ Singh, K Kaur, V Anand, P Kaur, P Singh, BS Bajwa Radiation Physics and Chemistry 144, 171-179	2018
6	<u>Lanthanide (= Ce, Pr, Nd and Tb) ions substitution at calcium sites of hydroxyl apatite nanoparticles as fluorescent bio probes: Experimental and density functional theory study</u> K Kaur, KJ Singh, V Anand, N Islam, G Bhatia, N Kalia, J Singh	2017

S.NO.	TITLE	YEAR
	Ceramics International 43 (13), 10097-10108	
7	<u>Gamma ray shielding and structural properties of PbO-P₂O₅-Na₂WO₄ glass system</u> M Dogra, KJ Singh, K Kaur, V Anand, P Kaur AIP Conference Proceedings 1832 (1), 070019	2017
8	<u>Drug loaded silica coated MnFe₂O₄ ferromagnetic biomaterials for targeted cancer treatment</u> Vikas Anand, K. J. Singh, Kulwinder Kaur, and Gaurav Bhatia AIP Conference Proceedings 1837 (1), 040009	2017
9	<u>1, 6-diisocyanatohexane-extended poly (1, 4-butylene succinate / hydroxyl apatite nano particle scaffolds: Potential materials for bone regeneration applications</u> Kulwinder Kaur, K. J. Singh, Vikas Anand, Gaurav Bhatia, Lovedeep Nim ... AIP Conference Proceedings 1837 (1), 040010	2017
10	<u>Scaffolds of hydroxyl apatite nanoparticles disseminated in 1, 6-diisocyanatohexane-extended poly (1, 4-butylene succinate)/poly (methyl methacrylate) for bone tissue engineering</u> K Kaur, KJ Singh, V Anand, G Bhatia, R Kaur, M Kaur, L Nim, DS Arora Materials Science and Engineering: C 71, 780-790	2017
11	<u>Investigation of the effect of barium content on the structural and gamma-ray shielding properties of bismuth borate glasses</u> K Parminder, KJ Singh, K Kulwinder, V Anand, M Dogra Proceedings of the international conference in nuclear physics with ...	2017
12	<u>Gamma ray shielding and structural properties of Bi₂O₃-B₂O₃-Na₂WO₄ glass system</u> M Dogra, KJ Singh, K Kaur, V Anand, P Kaur Universal Journal of Physics and Application 11 (5), 190-195	2017
13	<u>Magnesium and silver doped CaO–Na₂O–SiO₂–P₂O₅ bioceramic nanoparticles as implant materials</u> K Kaur, KJ Singh, V Anand, G Bhatia, S Singh, H Kaur, DS Arora Ceramics International 42 (11), 12651-12662	2016
14	<u>Comparative Study of Silver Nanoparticles Coated and Uncoated NiO–Fe₂O₃–CaO–SiO₂–P₂O₅ Ferromagnetic Bioactive Ceramics</u> V Anand, K Singh, K Kaur, H Kaur, G Bhatia, S Singh, DS Arora Journal of the American Ceramic Society 99, 3632-3638	2016
15	<u>Degradation studies of 1, 6-diisocyanatohexane-extended poly (1, 4-butylene succinate)-bioactive glass scaffolds for bone tissue repair applications</u> K Kaur, KJ Singh, V Anand AIP Conference Proceedings 1731 (1), 070016	2016
16	<u>Investigation of xFe₂O₄ (x = Mn, Co) doped hydroxylapatite ferromagnetic biomaterials for the treatment of damaged bone and magnetically targeted drug delivery ...</u>	2016

S.NO.	TITLE	YEAR
	V Anand, KJ Singh, K Kaur, G Bhatia AIP Conference Proceedings 1731 (1), 040006	
17	<u>Structural properties of Bi₂O₃–B₂O₃–SiO₂–Na₂O glasses for gamma ray shielding applications</u> K Kaur, KJ Singh, V Anand Radiation Physics and Chemistry 120, 63-72	2016
18	<u>B₂O₃–MgO–SiO₂–Na₂O–CaO–P₂O₅–ZnO bioactive system for bone regeneration applications</u> V Anand, KJ Singh, K Kaur, H Kaur, DS Arora Ceramics International 42 (2), 3638-3651	2016
19	<u>In-vitro study of copper doped SiO₂-CaO-P₂O₅ system for bioactivity and antimicrobial properties</u> K Kaur, KJ Singh, V Anand, H Kaur, DS Arora AIP Conference Proceedings 1675 (1), 020020	2015
20	<u>Correlation of gamma ray shielding and structural properties of PbO–BaO–P₂O₅ glass system</u> K Kaur, KJ Singh, V Anand Nuclear engineering and design 285, 31-38	2015
21	<u>Evaluation of zinc and magnesium doped 45S5 mesoporous bioactive glass system for the growth of hydroxyl apatite layer</u> V Anand, KJ Singh, K Kaur Journal of non-crystalline solids 406, 88-94	2014
22	<u>Gamma ray shielding and structural properties of Bi₂O₃–PbO– B₂O₃– V₂O₅ glass system</u> K Kaur, KJ Singh, V Anand AIP Conference Proceedings 1591 (1)	2014
23	<u>Gamma ray shielding and structural properties of glass system</u> K Kaur, KJ Singh, V Anand AIP Conference Proceedings 1591 (1), 747-748	2014
24	<u>Investigation of Mg and Zn doped 45S5 bioactive materials by XRD, FTIR and SEM techniques</u> V Anand, KJ Singh, K Kaur AIP Conference Proceedings 1591 (1), 745-746	2014
25	<u>Investigation of 70SiO₂–15CaO–10P₂O₅–5Na₂O Glass Composition for Bone Regeneration Applications</u> V Anand, KJ Singh, K Kaur, DS Arora, H Kaur Smart Science 2 (4), 191-195	2014
26	<u>Investigation of structural properties of bismuth silicate glass system as gamma ray shielding materials</u> S Kaur, KJ Singh, RS Kaundal, V Anand, K Kaur Asian Journal of Applied Sciences 1 (3)	2013

S.NO.	<u>TITLE</u>	YEAR
27	<u>Synthesis and Characterization of 35SiO-55CaO-10PO, Bioactive Glass Composition</u> K Kaur, KJ Singh, V Anand, International Journal of Innovative Research in Science and Engineering (ISSN online 2347-3207) 2014	