

**Department of Technology, Savitribai Phule Pune University**  
In association with  
**Rayat Shikshan Sanstha's Annasaheb Awate College Manchar**  
**Bharat Abhimaan Series**  
**An online webinar series**

Date of webinar: 29/09/2021

Time: 11.00 Am

Zoom Link:

<https://us02web.zoom.us/j/83364807146?pwd=RlMwOTJBT1MxTFdhdWJsZUp1V2JXUT09>

 YouTube Link:

<https://www.youtube.com/channel/UCIPmGFordjTbP5mlPyG84EA>

**Speaker- Professor Animesh Jha**

**Topic:-** “Interaction of Ultrafast Laser with BioMaterials and Applications”



**Professor Animesh Jha**

(Fellow InstP, RSC, OSA)

Chair in Applied Materials Science Room: 3.16, The Engineering Building,  
Clarendon Road, University of Leeds.  
Leeds LS2 9JT W Yorkshire

## • **Detail About Professor Animesh Jha**

- **Areas of expertise:** glass & mineral science; optical fibre, bulk & waveguide lasers and amplification device engineering; pulsed lasers processing; restorative (bone & dental) tissue engineering, tissue diagnostics
- **Email:** [A.Jha@leeds.ac.uk](mailto:A.Jha@leeds.ac.uk)
- **Phone:** +44(0)113 343 2342
- **Location:** 3.16 Engineering Building
- **Website:** [My Other Personal Site](#) | [LinkedIn](#) | [Googlescholar](#)

## **Profile**

- Bachelor of Engineering (BE), University of Roorkee (India),  
Master of Engineering (ME), Indian Institute of Science, Bangalore (India)
- PhD and DIC, Imperial College (London)
- Postdoctoral Research Fellowship (Mineral Science) - Purdue University W. Lafayette USA (May 1985 - Nov 1986)
- Postdoctoral Research Fellowship (Glasses for IR Photonics):  
University of Sheffield, Sheffield (UK) (Dec 1986 - April 1989).
- Lecturership at Brunel University, Uxbridge (UK) (May 1989 - Feb 1996)
- Reader in Materials Processing, University of Leeds, Leeds (UK) (March 1996 - July 2000)
- Professor of Applied Materials Science and group leader of glass science and devices for photonics since 2000.
- Ultra-fast laser processing of bone and dental tissue materials (restorative materials engineering)

# Research Publication Professor Animesh Jha

Publication	474
Citations	7615
h-index	46
i10-index	158

## Google Scholar



Animesh Jha

Professor of Applied Materials Science

Verified email at leeds.ac.uk - [Homepage](#)

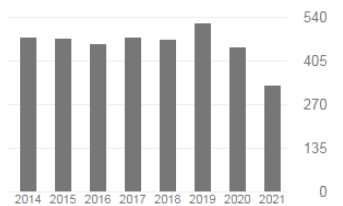
optical glass fibres and wav... lasers & amplifiers minerals bone and teeth 2D- and Q-dot materials

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	All	Since 2016
Citations	7615	2711
h-index	46	26
i10-index	158	82



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TITLE	CITED BY	YEAR
<a href="#">Rare-earth ion doped TeO<sub>2</sub> and GeO<sub>2</sub> glasses as laser materials</a> A Jha, B Richards, G Jose, T Teddy-Fernandez, P Joshi, X Jiang, ... Progress in Materials Science 57 (8), 1426-1491	328	2012
<a href="#">Structural origin of spectral broadening of 1.5-<math>\mu</math>m emission in Er<sup>3+</sup>-doped tellurite glasses</a> A Jha, S Shen, M Naftaly Physical Review B 62 (10), 6215	324	2000
<a href="#">In situ fabrication of Al<sub>3</sub>Ti particle reinforced aluminium alloy metal–matrix composites</a> X Wang, A Jha, R Brydson Materials Science and Engineering: A 364 (1-2), 339-345	182	2004
<a href="#">Tm<sup>3+</sup>-doped tellurite glass for a broadband amplifier at 1.47 <math>\mu</math>m</a> M Naftaly, S Shen, A Jha Applied Optics 39 (27), 4979-4984	157	2000
<a href="#">Broadband emission in Fr<sup>3+</sup>-Tm<sup>3+</sup> codoped tellurite fibre</a> <a href="#">/scholar.google.com/citations?view_op=view_citation&amp;hl=en&amp;user=7zYfAVoAAAAJ&amp;citation_for_view=7zYfAVoAAAAJ:UebtZRa9Y70C</a>	156	2004



Department of Technology, Savitribai Phule Pune University  
in Association with Annasaheb Awate College, Manchar

## Bharat Abhimaan Webinar Series

An Online Webinar Series

Day : 29<sup>th</sup> September 2021  
Time : 2.30 PM (IST)

**MEET THE EMINENT  
SCIENTISTS AND  
ACADEMICIANS OF  
INDIAN ORIGIN  
ACROSS THE GLOBE**

**An unconventional  
and unstructured  
talk by eminent  
scientists and  
academicians who  
are of Indian origin  
across the globe.**

**Get to know about  
their struggles, their  
success stories and  
their ground  
breaking research.**



**-: Speaker :- Prof. Animesh Jha**

**Topic - "Interaction of Ultrafast Laser  
with BioMaterials and Applications"**

- Prof. Animesh Jha received his PhD and DIC from Imperial College (London). He got Postdoctoral Research Fellowship (Mineral Science) from Purdue University W. Lafayette USA (May 1985 - Nov 1986) and (Glasses for IR Photonics): University of Sheffield, Sheffield (UK) (Dec 1986 - April 1989).
- Dr. Animesh Jha is working as a Professor of Applied Materials Science and group leader of glass science and devices for photonics since 2000.
- His areas of expertise: glass & mineral science; optical fibre, bulk & waveguide lasers and amplification device engineering; pulsed lasers processing; restorative (bone & dental) tissue engineering, tissue diagnostics



Prof. (Dr.) Nitin R. Karmalkar  
Vice Chancellor,  
Savitribai Phule Pune University  
(SPPU)



Dr. N.S. Umarani  
Pro-Vice Chancellor,  
Savitribai Phule Pune University  
(SPPU)



Dr. Aditya Abhyankar  
Department of technology,  
Savitribai Phule Pune University  
(SPPU)



Dr. Manohar Chaskar  
Dean - Faculty of Science  
& Technology, Savitribai Phule  
Pune University (SPPU)



Dr. Dinesh Amalnerkar  
Professor Emeritus,  
Savitribai Phule Pune University  
(SPPU)



Dr. K. G. Kanade  
Principal, Annasaheb  
Awate College, Manchar

Zoom Link : <https://us02web.zoom.us/j/83364807146?pwd=RIMwOTJBT1MxTFdhdWJsZUpIV2JXUT09>

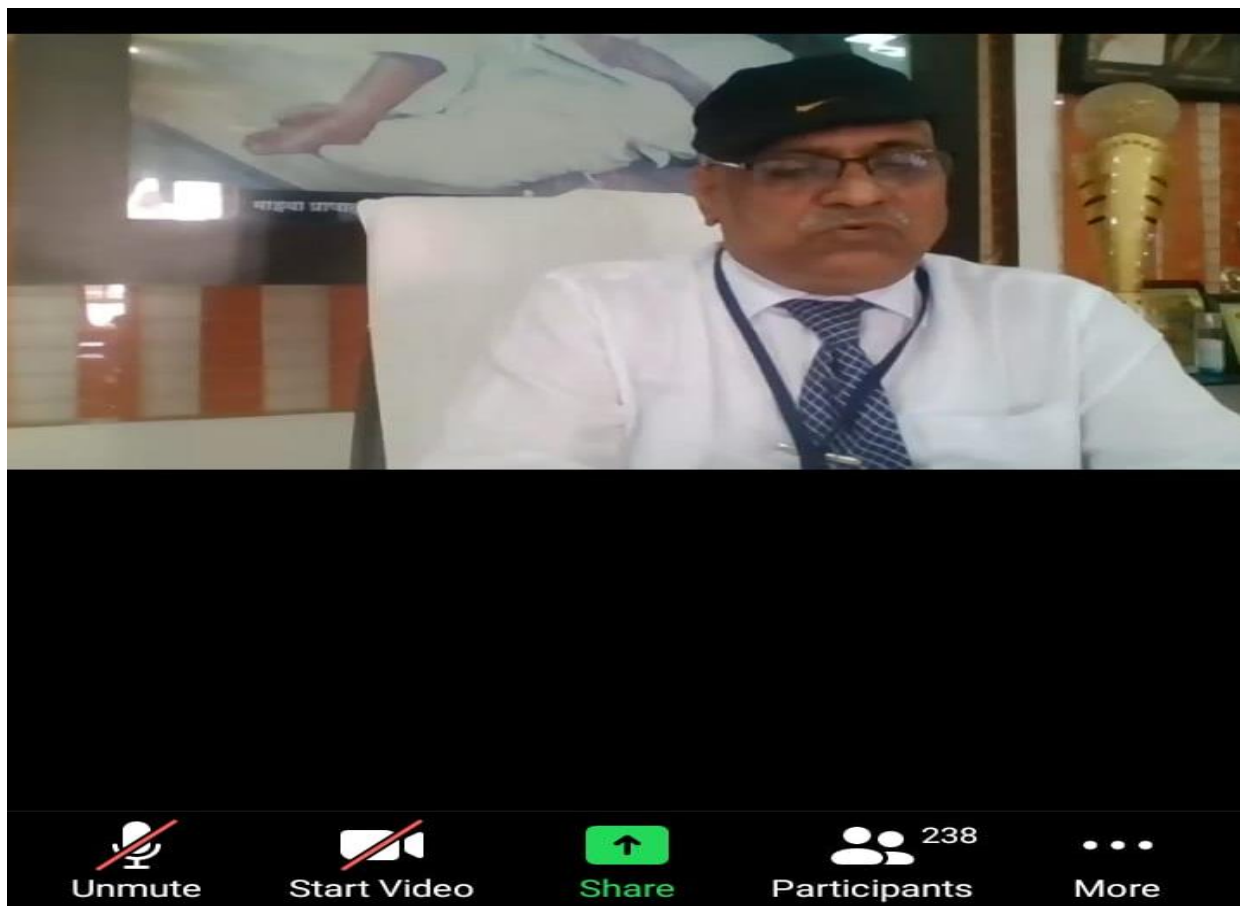
Meeting ID : 833 6480 7146, Passcode : 756152

You Tube Link : <https://www.youtube.com/channel/UCIPmGFordjTbP5mIPyG84EA>

## **Summary of Programme:**

<b>Opening Remarks</b>	:	Dr. K. G. Kanade Principal, Annasaheb Awate College Manchar
<b>Lightning of Lamp</b>	:	Professor Animesh Jha Professor, Univerity of Leeds UK, Fellow of InstP, RSC, OSA
<b>Presidential Remarks</b>	:	Dr. K. G. Kanade Principal, Annasaheb Awate College Manchar
<b>Introduction of Speakers</b>	:	Dr.Dinesh Amalnerkar Professor Emeritus, Savitribai Phule Pune University (SPPU), India Former Brain-Pool Invited Scientist, South Korea, Former Director General, C-MET, India.
<b>Speakers Talk</b>	:	Professor Animesh Jha Professor, Univerity of Leeds UK, Fellow of InstP, RSC, OSA
<b>Question &amp; Answer Section</b>	:	25 Minute
<b>Vote of thanks</b>	:	Prof. G. C. Wagh, Associate Professor, Annasaheb Awate College Manchar
<b>No. of Participants via. Zoom</b>	:	275
<b>No. of YouTube viewers</b>	:	303
<b>No. of Response form Participants</b>	:	125
<b>Channel Subscribers</b>	:	5910

## Online webinar Photograph



## Opening Remarks by Principal Dr. K. G. Kanade



## Introduce imminent speaker Professor Animesh Jha by Dr. Dinesh Amalnerkar

Zoom Meeting

Vikram Hinge

Annasaheb A...

mtlaj

Prajakta Chaudh...

DINESH AMA...

Venkatesan R...

Recording LIVE on YouTube

Department of Technology, Savitribai Phule Pune University  
in Association with Annasaheb Awarde College, Manchar

**Bharat Abhimaan Webinar Series**

An Online Webinar Series

Day : 29<sup>th</sup> September 2021  
Time : 2:30 PM (IST)

**Morphological Engineering of Bio-Minerals Using Near-IR Mode-locked Lasers – a new approach for integrative manufacturing of hard-soft tissues for in-theatre use!**

**Animesh Jha<sup>a</sup>**  
**Emaan Alshubh<sup>a</sup>, Neelam Iqbal<sup>a</sup>, Dina Abdul Aziz<sup>a</sup>, Lemiha Ylizibakan<sup>a</sup>,  
 Antonios Anastasiou<sup>b</sup>, S Strafford<sup>c</sup>, P. Giannoudis<sup>c</sup>, T J Edward<sup>d</sup>,  
 C T A Brown<sup>d</sup>.**

<sup>a</sup> School of Chemical & Process Engineering, University of Leeds, Leeds LS2 9JT  
<sup>b</sup> Leeds Institute of Rheumatic and Musculoskeletal Medicine, University of Leeds, Leeds LS2 9JT (UK).  
<sup>c</sup> Department of Chemical Engineering and Analytical Sciences, The University of Manchester, Sackville Street, Manchester, M1 3AL, UK.  
<sup>d</sup> School of Physics & Astronomy, North Haugh, St Andrews, United Kingdom



UNIVERSITY OF LEEDS

MANCHESTER 1824 The University of Manchester

University of St Andrews

## Imminent Speaker Online Talk

Recording LIVE on YouTube

Department of Technology, Savitribai Phule Pune University  
in Association with Annasaheb Awarde College, Manchar

**Bharat Abhimaan Webinar Series**

An Online Webinar Series

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<sup>b</sup> Leeds Institute of Rheumatic and Musculoskeletal Medicine, University of Leeds, Leeds LS2 9JT (UK).  
<sup>c</sup> Department of Chemical Engineering and Analytical Sciences, The University of Manchester, Sackville Street, Manchester, M1 3AL, UK.  
<sup>d</sup> School of Physics & Astronomy, North Haugh, St Andrews, United Kingdom



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mtlaj

## Professor Animesh Jha Online Talk: 275 Participants

(3) WhatsApp x "Interaction of Ultrafast Laser" x  
 youtube.com/watch?v=iQiljWhug7I  
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**OUTLINE**

- ▶ Aetiology of dentine hypersensitivity
- ▶ State-of-the-art treatment in practice
- ▶ The concept of medical device technology and Materials
- ▶ Types of Mode-locked pulsed lasers used
- ▶ Results with morphological changes including brushing trials
- ▶ Progress towards clinical research and first-in-human trials

"Interaction of Ultrafast Laser with BioMaterials and Applications"  
 303 views • Streamed live on Sep 29, 2021

Top chat replay  
 Live chat replay is on. Messages that appeared when the stream was live will show up here.

- Chirag karale good afternoon sir
- rutuja yewale good afternoon
- Dr. Maruti Kekane Good Information
- chetan talpe good afternoon sir
- Pingale Sejal good afternoon
- Pranali Indore good afternoon.
- chemistry with Kaushal good Afternoon

AAC MANCHAR  
 77.jpg 66.jpg 55.jpg 12.jpg Show all

7:41 PM 30/09/2021

## Professor Animesh Jha Talk on Youtube: 303 Viewers

Zoom Meeting  
 Recording... LIVE on YouTube

Participants (236)  
 Find a participant

Annasaheb Awat... (Host, me)  
 Prakash Phatangare  
 Annasaheb Awate CoL... (Co-host)  
 mtlaj (Co-host)  
 DC Dr. Manohar Chaskar ... (Co-host)  
 DA DINESH AMALNERKAR  
 # Sanskar Koli  
 PETKAR TEJAS  
 OA OSN akaeksha padwal  
 IW 1055-rohit waghmare  
 15 13-Gaikwad Sanka Bhikhan  
 1 1WK7npTh88v43zQJ\_9015wKgr...  
 29 Landje Prajanta Dilip

Yogesh Avhad Pawar Aishwarya  
 Prakash Phatangare Annasaheb Awate Col... Yogesh Avhad Pawar Aishwarya Yadav sir  
 Dr. Manohar Chaskar Dean Science and Technology  
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