CURRICULUM VITAE

Dr. Prakash Kumar डॉ. प्रकाश कुमार

Director

सीएसआईआर-राष्ट्रीय भूभौतिकीय अनुसंधान संस्थान

CSIR-National Geophysical Research Institute

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http://scholar.google.com/citations?hl=en&user=t6fhp2sAAAAJ

GOOGLE SCHOLAR PROFILE (AS ON AUGUST, 2023)

Citations	4174
h-index	29
i10-index	43

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Uppal Raod, Hyderabad-500007, Telangana, India
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PROJECT LEADER:

Seismic Division (Shallow Seismic, Marine and Deep Seismic)
Airbrone Division
Planetary Sciences

FIELD OF SPECIALIZATION: SEISMOLOGY, SEISMIC (GEOPHYSICS)

EDUCATION:

2007	Postdoc, Japan Society for the Promotion of Science - Earthquake Research Institute, Univ. Tokyo
2002	Ph. D. Geophysics, Osmania University, Hyderabad, India
1997	M. Sc. (Tech) Applied Geophysics, Indian School of Mines, Dhanbad, India
1994	B. Sc. Physics (Hons), University of Calcutta, India

PH. D:

Seismic Structure of the continental crust of the central Indian region and its tectonic implications (Advisor: Dr. H. C. Tewari).

FELLOW:

The National Academy of Sciences, India (NASI) – 2021
Fellow of Geological Society of India - 2014
Life Member of Indian Geophysical Union
Fellow of Telangana Academy of Sciences (FTAS-0404) - 2023

AWARDS / HONOURS AND FELLOWSHIPS:

1. Recipient of CSIR- Young Scientist Award (2006).
2. Recipient of Krishnan Medal – Indian Geophysical Union (2010).
3. National Geoscience Award – Ministry of Mines (2011).
4. Anni Talwani Memorial Prize – Indian Geophysical Union (2016).

5. *DAAD Fellowship (2003) – GFZ Potsdam*
6. *BOYSCAST Fellowship (2003) – Govt. of India (not availed)*
7. *Japan Society for the Promotion of Science (2007) - Earthquake Research Institute, Univ. Tokyo*
8. *First T. M. Mahadevan Endowment Lecture Award – Geological Society of India - 29th May 2023. Imaging the seismic Lithosphere-Asthenosphere* Boundary of the Indian plate.

PROFESSIONAL EXPERIENCE:

SL No	From	To	Name of Organization	Position held
1	17-11-2022	Till	CSIR- National Geophysical Research Institute, Hyderabad, India	Director
2	30-11-2019	17-11-2022	CSIR- National Geophysical Research Institute, Hyderabad, India	Chief Scientist
3	30-11-2014	30-11-2019	CSIR- National Geophysical Research Institute, Hyderabad, India	Senior Principal Scientist
4	30-11-2010	30-11-2014	CSIR- National Geophysical Research Institute, Hyderabad, India	Principal Scientist
5	30-11-2006	30-11-2010	CSIR- National Geophysical Research Institute, Hyderabad, India	Scientist-EI
6	30-11-2002	30-11-2006	CSIR- National Geophysical Research Institute, Hyderabad, India	Scientist-C
7	30-11-1999	30-11-2002	CSIR- National Geophysical Research Institute, Hyderabad, India	Scientist-B
8	06-2003	06-2005	GeoFoschungsZentrum (GFZ) Potsdam, Germany	DAAD Fellow
9	2007	2009	Earthquake Research Institute, Univ. Tokyo	JSPS Fellow
10	07-2010	12-2011	GeoFoschungsZentrum, Germany.	Visiting Researcher

11	11-2006	01-2007 (2 months)	Institute of Physics of the Earth, RAS, Moscow, Russia	Visiting Researcher
12	05-2016	05-2016 (2weeks)	IPGP, Paris	Visiting Researcher

RESEARCH INTERESTS:

- Geophysical Instrumentation (especially, Seismic and Seismological Instruments including Ocean bottom seismometers).
- Theoretical and computational seismology: Converted wave techniques, Anisotropy, using various seismic phases to decipher the subsurface structure.
- Geophysical Prospecting for Hydrocarbon, Gas Hydrate exploration.
- Seismological Tools to explore deep earth and attempting forefront problems in seismology.
- Earthquake source dynamics

SERVICE

Reviewer, Various National and International Journals (Science, JGR, GJI, EPSL, etc).
Reviewer, Project Proposals of DST-SERB and MoES
Editorial Team,

- Editorial Team - Journal of Indian Geophysical Union
- Co-Guest Editor for a special volume titled, 'Continental Lithosphere: Integrated Geoscientific Aspects' of Geosystems and Geoenvironment (Elsevier).

Editorial Advisory Committee – Solid Earth Geosciences – The Journal of Indian Geophysical Union (JIGU)

PHD REVIEWER

- Goa University, IIT-ISM Dhanbad

TRAINING PROVIDED UNDER SKILL INDIA INITIATIVE:

1. Delivered lecture in Seismological Session by participating Skill India Initiative at CSIR-NGRI 19-08-2019 to 30-08-2019.
2. Delivered lecture in Seismological Session by participating Skill India Initiative at CSIR-NGRI 04-01-2021 to 16-01-2021.

COMMITTEES:

MEMBER AT VARIOUS COMMITTEES (PAST)

1. Students Affair Committee at CSIR- NGRI
2. Project Assistant Evaluation Committee
3. Project Associate Recruitment Committee
4. Management Council – Member (Past)
5. Faculty at AcSIR (Assco. Prof).
6. Library Committee at CSIR-NGRI (Past)
7. Medical Committee at CSIR-NGRI (Past).

8. Member - decision making in Students Academic Committee (SAC) meetings.
9. Assessment Collegium committee for scientists at CSIR-NGRI.
10. CSIR – Senior Research Fellow Selection Committee (2020)
11. Various Brain-storming Sessions at Institute and National level.
12. Key member in Brain storming seminar on Archean Terrane Assembly with specific reference to the Dharwar Craton and SGT Terrain, India. October 21-22, 2019.
13. Panel member in 2 days scientific workshop (brainstorming meeting) during 19-20th February 2018, at NCAOR, Goa.
14. Panel Discussion on formulating an integrated project on Evolution of cratons at Jadavpur University, Kolkata.
15. Inputs provided for the Vision Documents, Vision and strategies preparation of CSIR-NGRI, CSIR, Environment Earth & Ocean Sciences and Water E3OW whenever required.

INTERNATIONAL COMMITTEES

1. Chairing a session on topic Lithosphere-Asthenosphere Boundary in 27th IUGG General Assembly, Montreal Canada from July 8th - 18th July, 2019. (not attended)
2. Chairing a session at IAGA-IASPEI 2021 held in Hyderabad, India
3. Scientific Program Committee at IAGA-IASPEI 2021 held in Hyderabad, India.
4. Participated in VAIBHAV in Panel Discussion on Artificial Intelligence and Machine Learning (AI/ML) held during 2nd- 3rd Oct, 2020.
5. Participated at ICDP Workshop on Scientific Deep Drilling in Koyna, India, Pune, India on October 14 to 16, 2017.
6. Chairing a Session at Asian Seismological Commission at Hyderabad India – 1999.

PROJECTS:

ONGOING AND PAST

1. Project Investigator for 'Seismic Hazard assessment in the Kashmir Himalaya using seismology, geology and geodetic data' (2014-2021). (~17Cr)
2. Seismic structure, lithospheric deformation and seismicity of the Indian plate in Sikkim Himalaya (2018-2023) -IIT- Kgp PI-Arun Singh). Member
3. Lithospheric Thermal structure of the Singhbhum Craton from Heat Flow, Heat Production and constraining upper mantle temperature from Shear Wave velocity (2019-2023) – Co-PI
4. Structure anatomy and Geological evolution of the Singhbhum Mobile Belt, Singhbhum craton, East India. 2021-2026 (CSIR-Project) - PI of Seismological Component
5. Investigation of Seismicity and lithospheric structure in the Andaman Nicobar subduction zone (ISLANDS) – 2012- 2017. (INCOIS-MoES)
6. Earthquake motoring in Delhi seismic zone using 4.5Hz standalone sensor (Jan 2021-2022) 8 lakhs – PI
7. Geodynamic and Earthquake generating processes in NE India and Andaman subduction zone (GENIAS) (2012-2017) – Member. 2353.900 lakhs. Agreed to submit Report on 2017

INTERNATIONAL PROJECTS AND COLLABORATIONS:

1. Development and pilot implementation of dynamic strain and displacement measurements system based on fiber optic distributed line to decipher the structure and dynamics of

Andaman subduction zone (DST International Cooperation, Bilaternal India-Russia, PI- Dr. M. Ojha) Sept2019-Sept2021.

2. Indo-Russian Program on Marine Sciences and Technology. CSIR-National Institute of Oceanography, CSIR-National Geophysical Research Institute and V.I II'ichev Pacific Oceanological Institute (RAS)- PI from NGRI side.
3. Indo-France Project on Deep Structure of the Indian Continental Plate (April 2012 to April 2016) IFCPAR/CEFIPRA.
4. Indo-Japan collaboration - Analysis of seismic array data (including Indian data) to infer the deep mantle and CMB structure (from 16 May 2017 to 31 May 2018) – MEXT Grant-in-aid for Scientific Research on Innovative Area

STUDENT SUPERVISION

PH. D

1. Chinmay Haldar, *Crustal structure of the Indian continent and mid-oceanic crust from Teleseismic Receiver Functions and its implications* – 2017. (AcSIR, CSIR-NGRI).
2. Uppala Srinu, *Seismic Structure of the Indian Upper Mantle and its Implications*, 2022. (Osmania University).
3. Illa Bhaskar Rao, *Uppermost mantle seismic velocity and anisotropy structure beneath the Indian shield and adjacent regions* – 2022. (Andhra University).
4. Reshma K. S, *Seismic attenuation structure of the crust beneath the Indian Shield and Northwest Himalaya* – 2022. (Osmania University).
5. Sambuddha Mukherjee, *Seismic Characteristics of the diamondiferous regions of the world.* (IIT, Indian School of Mines, Dhanbad)- 2023.

PH. D. UNDER PREPARATION

1. Bijayanda Dalai, *De-noising and Inversion of Receiver Function data using Deep Learning with Sparse Representation.* (AcSIR, CSIR-NGRI).
2. Nayeem Ahmad Bhat, *Crustal velocity structure and the seismicity of the Kashmir Himalaya*. (Kashmir University).
3. Pratisha Tiwari - AcSIR, CSIR-NGRI
4. M. Pavani - AcSIR, CSIR-NGRI
5. Mukesh Rathod - AcSIR, CSIR-NGRI

PAST/PRESENT POSTDOC STUDENTS

- Dr. Chinmay Haldar
- Dr. Pinki Hazarika
- Dr. Subhadra

DST WOMAN SCIENTIST

- Dr. Chandrakala Bhatt
- Dr. Pinki Hazarika
- Dr. Subhadra

M. SC. INTERN TRAINING – 7

M. SC. DISSERTATION – 4

EXTERNAL COMMITTEE MEMBER OR EXAMINER – 8

INVITED LECTURES:

1. Delineation of Lithosphere-Asthenosphere Boundary using S-receiver function technique, 20-12-2004, GFZ, Potsdam, Germany.
2. Lithosphere-Asthenosphere Boundary beneath Indian Ocean Islands and it vicinity continents, 29-09-2005, GFZ, Potsdam, Germany.
3. LAB Beneath United States using S-Receiver function analysis. 05-09-2011, GFZ, Potsdam, Germany.
4. Mapping the Lithosphere-Asthenosphere Boundary using S-receiver functions. ERI, Toyo University. 20th Nov, 2007.
5. Imaging the seismic Lithosphere-Asthenosphere Boundary of the oceanic plates along the edges of the Pacific Ocean with S-receiver functions. ERI, 21st Jan, 2011.
6. Receiver Function images of the Lithosphere-Asthenosphere Boundary beneath India. 50th annual convention "sustainability of Earth system-t he Future challenges", IGU, 2014.
7. Imaging the subducting Indian oceanic slab beneath the Andaman using Receiver function Studies – Invited talk at Indian Geophysical Union, at IIT-ISM, Dhanbad, 2016.
8. Imaging the colliding Indian and Asian Lithospheres beneath Tibet using RFs – Invited talk at Indian Geophysical Union, at IIT-ISM, Dhanbad, 2016.
9. 3 days online Training Programme on Capacity Enhancement on Disaster Risk Management. Jointly organised by NIDM, Ministry of Home Affair and University of Lucknow. May 17-19, 2022.

TEACHING EXPERIENCE:

1. AcSIR-NGRI (Outstanding Professor).
2. Teaching in AcSIR-NGRI (Assoc. Prof.).
3. Lecture on Seismology to the Postgraduate students in Osmania University (13 Aug 2019).

RECOGNIZED PHD GUIDE IN GEOPHYSICS AT:

Academy of Scientific and Innovative Research (AcSIR, NGRI)

Andhra University

Osmania University

IIT- Indian School of Mines, Dhanbad

PUBLICATIONS

BOOK

Tewari, H., C., Rajendra Prasad, B., **Kumar, P.**, *Structure and Tectonics of the Indian Continental Crust and Its Adjoining Region.* p. 266, ISBN: 9780128136850, 10th Feb., Elsevier, **2018**.

1) **Prakash Kumar**, H. C. Tewari, and K. Sain, Velocity-Depth relationship in selected parts of Indian crust, ***J. Geol. Soc. India***, 54, 129-136, **1999**.

2) **Prakash Kumar**, H. C. Tewari, and G. Khandekar, An Anomalous high velocity layer at a shallow crustal depth across the Narmada zone, India, ***Geophys. J. Int.***, 142, 95-107, **2000**.

3) H. C. Tewari, A. S. N. Murty, **Prakash Kumar**, and A. R. Sridhar, A Tectonic model of Narmada region, ***Current Science***, 80, 873-878, **2001**.

4) S. K. Ghosh, and **Prakash Kumar**, Short Note on Divergent and Asymptotic Nature of the Time-Offset Taner and Koehler Power Series, ***Geophysics***, 67, 6,1913-1919, **2002**.

5) **Prakash Kumar**, K. Sain, and H. C. Tewari, A direct method of estimating depth to a reflector from seismic wide-angle reflection times, ***Geophys. J. Int.***, 152, 740-748, **2003**.

6) H. C. Tewari, and **Prakash Kumar**, Deep Seismic Sounding Studies in India and its Tectonic Implications, In: Geophysics: Window to Indian Geology, Ed. Mita Rajaram, ***Virtual Explorer***, 12,30-54, [Web-based journal, http://virtualexplorer.com.au/journal/2003/12], **2003**.

7) **P. Kumar**, X. Yuan, R. Kind and G. Kosarev, The Lithosphere-Asthenosphere Boundary in the Tien Shan-Karakoram Region from S Receiver Functions - Evidence of continental subduction, ***Geophys. Res. Lett.***, 32, L07305, doi:10.1029/2004GL022291, **2005**.

8) **P. Kumar**, R. Kind, W. Hanka, K. Wylegalla, Ch. Reigber, X. Yuan, I. Woelbern, P. Schwintzer, K. Fleming, T. Dahl-Jensen, T. B. Larsen, J. Schweitzer, K. Priestley, O. Gudmundsson, and D. Wolf, The Lithosphere-Asthenosphere Boundary in the North-West Atlantic Region, ***Earth Planet Sci. Lett.***, 236, 249-257, **2005**.

9) A.S. N. Murty, H.C. Tewari, **Prakash Kumar**, and P. R. Reddy, Subcrustal Low Velocity Layers in Central India and their Implications, ***Pure Appl. Geophys.***, 162, 2409-2431, **2005**.

10) **Prakash Kumar**, X. Yuan, R. Kind, and J. Ni, Imaging the collision of the Indian and Asian Continental Lithospheres Beneath Tibet, ***J. Geophys. Res.***, 111, B06308, doi:10.1029/2005JB003930, **2006**.

11) N. Purnachandra Rao, **P. Kumar**, Kalpana, T. Tsukuda, D. S. Ramesh, The Devastating Muzaffarabad Earthquake of 8 October 2005: New Insights into Himalayan Seismicity and Tectonics, ***Gondwana Research***, (***GR Focus***), 9,365-378, **2006**.

12) **Kumar, P.**, R. Kind, K. Priestley, and T. Dahl-Jensen, Crustal structure of Iceland and Greenland from receiver function studies, ***J. Geophys. Res.***, 112, B03301, doi:10.1029/2005JB003991, **2007**.

13) **Prakash Kumar**, Xiaohui Yuan, M. Ravi Kumar, Rainer Kind, Xueqing Li & R. K. Chadha, The rapid drift of the Indian tectonic plate, vol 449, 18 October 2007, doi:10.1038/nature06214, ***Nature***, 894-897, **2007**.

14) D. S. Ramesh and **Prakash Kumar**, Mantle Stratigraphy: Diversities in the Evolution of Geologic Provices – A Biased Viewpoint. **IAGR Memoir** No. 10, 201-216, 2007.

15) Hitoshi Kawakatsu, **Prakash Kumar**, Yasuko Takei, Masanao Shinohara, Toshihiko Kanazawa, Eiichiro Araki, Kiyoshi Suyehiro, Seismic Evidence for sharp Lithosphere-Asthenosphere Boundaries of Oceanic Plates, vol 324, 24 April 2009, Doi: 10.1126/science.1169499, ***Science***, 499-502, **2009**.

16) **Prakash Kumar**, Rainer Kind, Xiaohui Yuan, Receiver Function Summation without Deconvolution. ***Geophys. J. Int.***, 180, 3, March 2010, 1223-1230, doi: 10.1111 / j. 1365 – 246X.2009.04469.x, **2010**.

17) Junmeng Zhao, Xiaohui Yuan, Hongbing Liu, **Prakash Kumar**, Shunping Pei, Rainer Kind, Zhongjie Zhang, Jiwen Teng, Lin Ding, Xing Gao, Qiang Xu, Wei Wang, The boundary between the Indian and Asian plates below Tibet. ***Proceedings of the National Academy of Sciences***, doi/10.1073/pnas.1001921107, **PNAS,** June 22, 2010, vol. 107 | no. 25 | 11229–11233, **2010.**

18) **Kumar, P.**, and H. Kawakatsu, Imaging the seismic lithosphere-asthenosphere boundary of the oceanic plate, ***Geochem. Geophys. Geosyst.* (G3)**, 12, Q01006, doi:10.1029/2010GC003358, **2011**. **[Most popular article in G3 site] [Included in the G3 Special Themes "The Lithosphere-Asthenosphere Boundary"].**

19) Xueqing Li, Dongping Wei, Xiaohui Yuan, Rainer Kind, **Prakash Kumar**, and Huilan Zhou, Details of the Doublet Moho Structure beneath Lhasa, Tibet, Obtained by Comparison of P and S Receiver Functions, ***Bull. Seism. Soc. Am.* (BSSA)**, Vol. 101, No. 3, pp. 1259–1269, June doi: 10.1785/0120100163., **2011**.

20) J. R. Kayal, V. K. Srivastava, **P. Kumar**, Rima Chatterjee and P. K. Khan, Evaluation of Crustal and Upper Mantle Structures Using Receiver Function Analysis: ISM Broadband Observatory Data. ***J. Geol. Soc. India***, Vol. 78, 76-80, July, doi: 10.1007/s12594-011-0069-5, **2011**. Springer Nature.

21) E. UmaDevi, **Prakash Kumar**, M. Ravi Kumar, Imaging the Indian lithosphere beneath Eastern Himalayan region. ***Geophys. J. Int.***, Vol. 187, 631-641, doi: 10.1111/j.1365-246X.2011.05185.x, **2011.**

22) Süleyman Dündar, Rainer Kind, Xiaohui Yuan, Fatih Bulut, Forough Sodoudi, Ben Heit, **Prakash Kumar**, Xueqing Li, Winfried Hanka, Manfred Stiller, Tuna Eken, Marcelo Bianchi, Jose Morales, Elisa Buforn Peiro and Jose Martin Davila. Seismic Receiver Function Images of the Base of the Lithosphere in the Alboran Sea Region, ***Geophys. J. Int.***, Vol. 187, 1019-1026, doi: 10.1111/j.1365-246X.2011.05216.x, **2011**.

23) Wenjin Zhao, **Prakash Kumar**, James Mechie, Rainer Kind, Rolf Meissner, Zhenhan Wu, Danian Shi, Heping Su, Guangqi Xue, Marianne Karplus, Frederik Tilmann, Tibetan plate overriding the Asian plate in central and northern Tibet, doi:10.1038/ngeo1309, ***Nature Geoscience*** 4, 12, 870–873 (2011) doi:10.1038/ngeo1309, December, 2011.

24) **Kumar, P.***, H. Kawakatsu, M. Shinohara, T. Kanazawa, E. Araki, and S. Kiyoshi, P and S receiver function analysis of seafloor borehole broadband seismic data, ***J. Geophys. Res.***, 116, B12308, doi:10.1029/2011JB008506, **2011**.

25) **Prakash Kumar**, Xiaohui Yuan, Rainer Kind and Jim Mechie, The Lithosphere-Asthenosphere Boundary observed with USArray Receiver Functions. ***Solid Earth* (SE)**, Europen Geosciences Union, **2012**. Solid Earth, 3, 149-159, **2012**. www.solid-earth.net/3/149/2012/, doi:10.5194/se-3-149-2012.

26) **Prakash Kumar***, Rainer Kind, Xiaohui Yuan, James Mechie, USArray receiver function images of the LAB. ***Seism. Res. Lett.*, vol. 83, no. 3, 486-491, May-June,** doi: 10.1785/gssrl.83.3.486, **2012.**

27) Rainer Kind, Xiaohui Yuan and **Prakash Kumar**, Seismic Receiver Functions and the Lithosphere-Asthenosphere Boundary. 25-43, 536-537, doi:10.1016/j.tecto.2012.03.005, ***Tectonophysics*, 2012.**

28) **Prakash Kumar***, Seismic Structure Beneath Tibet from Receiver Functions: A Review. Deep Continental Studies in India, **Newsletter**, **Dept. of Science and Technology, Govt. of India**, Vol. 22, No. 1, January **2012**, pp.8-11.

29) R. Kind, F. Sodoudi, X.Yuan, H. Shomali, R. Roberts, D. Gee, T. Eken, M. Bianchi, F. Tilmann, N. Balling, B.H. Jacobsen, **P. Kumar**, W.H. Geissler, Scandinavia - a former Tibet ?, ***Geochem. Geophys. Geosyst.* (G3)**,doi: 10.1002/ggge.20251, Volume 14, Issue 10, October, 4479–4487, **2013**.

30) **P. Kumar***, M. Ravi Kumar, G. Srijayanthi, Kusumita Arora, D. Srinagesh, R. K. Chadha, and Mrinal K. Sen, Imaging the Lithosphere-Asthenosphere Boundary of the Indian Plate using converted wave techniques, ***J. Geophys. Res.***, Solid Earth, 118, 1-13, doi:10.1002/jgrb.50366. 1st September, **2013**.

31) Heit, B., Bianchi, M., Yuan, X., Kay, S. M., Sandvol, E., **Kumar, P.**, Kind, R., Alonso, R. N., Brown, L. D., Comte, D., Structure of the crust and the lithosphere beneath the southern Puna plateau from teleseismic receiver functions, ***Earth and Planetary Science Letters***, 385, 1-11, **2014**.

32) **P. Kumar***, Karabi Talukdar and Mrinal K. Sen, Lithospheric Structure Below Transantarctic Mountain using Receiver Function Analysis of Tamseis data. ***J. Geol. Soc. India***, 83, 483-492, May, **2014**. Springer Nature.

33) C. Haldar, **P. Kumar***, M. Ravi Kumar, Seismic Structure of the lithosphere beneath the Ocean Islands near the Mid-Oceanic Ridges. ***Solid Earth* (SE)**, 5, doi:10.5194/se-5-327-2014, 327-337, **2014**.

34) **Prakash Kumar***, Mrinal K. Sen, Chinmay Haldar, Estimation of shear velocity contrast from transmitted Ps amplitude variation with ray-parameter. ***Geophys. J. Int.***, 198, 3, 1431-1437, doi: 10.1093/gji/ggu213, August, **2014**.

35) Mrinal K. Sen, Reetam Biswas, Prantik Mandal and **Prakash Kumar**, Basis Pursuit Receiver Function. ***Bull. Seism. Soc. Am.***, 104, 6, doi: 10.1785/0120140004, **2014**.

36) Feng, M., **Kumar, P.**, Mechie, J., Zhao, W., Kind, R., Su, H., Xue, G., Shi, D. & Qian, H., Structure of the crust and mantle down to 700 km depth beneath the East Qaidam basin and Qilian Shan from P and S receiver functions. ***Geophys. J. Int.***, 199, 1416-1429, doi:10.1093/gji/ggu335, **2014**.

37) **Prakash Kumar***, Estimation of shear velocity contrast for dipping or anisotropic medium from transmitted Ps amplitude variation with ray-parameter. ***Geophys. J. Int.***, 203, 2248-2260, doi: 10.1093/gji/ggv417, **2015**.

38) **Prakash Kumar*, G. Srijayanthi, and M. Ravi Kumar,** Seismic evidence for tearing in the subducting Indian slab beneath the Andaman arc. ***Geophys. Res. Lett.***, 43, doi:10.1002/2016GL068590, 4899-4906, **2016.**

39) Bandana Baruah, **Prakash Kumar***, M. Ravi Kumar, Discrimination of explosions and earthquakes : An example based on spectra and source parameters of the 11th May 1998 Pokhran explosion and the 9th April 2009 earthquake. ***J. Geol. Soc. India***, 88, 13-21, July **2016**. Springer Nature.

40) **Prakash Kumar***, Gautam Sen, Prantik Mandal, Mrinal K. Sen, Shallow Lithosphere-Asthenosphere Boundary beneath Cambay Rift Zone of India: Inferred presence of Carbonated partial melt. ***J. Geol. Soc. India***, 88, 4, 401-406, **2016**. Springer Nature.

41) Bandana Baruah, **Prakash Kumar***, M. Ravi Kumar, and Shib S. Ganguli, Stress-Drop Variations and Source-Scaling Relations of Moderate Earthquakes of the Indian Tectonic Plate. ***Bull. Seism. Soc. Am.***, 106, 6, 2640-2652, December, doi:10.1785/0120150106, **2016**.

42) Haldar, C., **Kumar, P.***, Ravi Kumar, M., Ray, L., and Srinagesh, D., Seismic evidence for secular evolution and alteration of Archaean crust in Indian shield. ***Precam. Res.***, 304, 12-20, January **2018**.

43) Reshma, K. S., and **Kumar, P.***, Seismic attenuation in Indian Shield and Himalayan regions and its implications, ***J. Indian Geophys. Union***, 22, 6, 571-584, Nov. **2018.**

44) **Prakash Kumar***, Tewari, H. C., and Sreenivas, B., Seismic structure of the Central Indian Crust and its Implications on the Crustal Evolution. ***J. Geol. Soc. India***, 93, 2, Feb, doi: 10.1007//s12594-019-1146-4, **2019**. Springer Nature.

45) Shib Sankar Ganguli, **Prakash Kumar*** and V.P. Dimri, Seismic anisotropy of a fractured rock during CO2 injection: A feasibility study, ***Acta Geophysica***, 67, 1, 141-148, doi 10.1007/s11600-019-00246, Feb. **2019**. (Springer Nature).

46) Bijayananda Dalai, **Prakash Kumar***, Xiaohui Yuan, De-noising the receiver function data using the Seislet Transform, ***Geophys. J. Int.***, 217, 3, 2047-2055, https://doi.org/10.1093/gji/ggz135, **2019**.

47) Junmeng Zhao, Rainer Kind, Xiaohui Yuan, Hongbing Liu, Shunping Pei, **Prakash Kumar**, Qimin Liu, Qiang Xu, Heng Zhang, Changhui Ju, Gong Deng, Caibayangzeng, Shuze Chen, Moho Doublet in Southern Tibet and Its Tectonic Implication, (*Special Issue: Abstracts of the International Symposium on Deep Earth Exploration and Practices, 24–26 Oct 2018, Beijing, China, October 24-26, 2018)*, ***Acta Geologica Sinica*** (English Edition), Volume 93, Issue S1, (Wiley), 2019.

48) **Prakash Kumar*,** Recent Seismological Investigations in India, ***Proc Indian Natn Sci Acad***, 85, 2, 431-451, DOI: 10.16943/ptinsa/2018/49517, 2019.

49) Sanjay Kumar and **Prakash Kumar**, One-Dimensional velocity model, Stations correction and Earthquake relocation of Local earthquakes in the Koyna-Warna region, India, ***Pure Appl. Geophys.***, 176, 4761-4782, https://doi.org/10.1007/s00024-019-02264-7, 2019.

50) Tewari, H. C and **Kumar Prakash**, Lithospheric framework of the Indian sub-continent through Seismic and Seismological Studies, ***Episode***, UGS, 43,1, 622-637, 2020.

51) Mandal, P., **Kumar, P.**, Sreenivas, B., Babu, E. V. S. S. K., and Bhaskar Rao, Y. J., Variations in crustal and lithospheric structure across the Eastern Indian Shield from Passive Seismic source imaging: Implications to changes in the tectonic regimes and crustal accretion through the Precambrian, ***Precam. Res.***, 2021.

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