

ABHIJIT BASU

Herman B Wells Professor Emeritus, Indiana University

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B.Sc.	Presidency College, Calcutta	1959
M.Sc.	Calcutta University	1961
Ph.D.	Indiana University	1975

Positions:

Herman B Wells Professor Emeritus, Indiana University, 2016 – present.

Professor (1991-2016); Assoc. Professor, Department of Geology/Geological Sciences, Indiana University, Bloomington, 1982-1991. [*Honors College Core Faculty: 1989-1992; 1996-2002*]

Chair (2003 – 2007), Department of Geological Sciences, Indiana University, Bloomington.

Associated Scientist, Indian Statistical Institute, 2006 – present.

Visiting Professor, University d'Annunzio (Italy), June 2001.

Visiting Professor, University of Parma (Italy), Aug. 1992 - Aug. 1993; May-June, 2001.

Visiting Scientist, Lunar & Planetary Institute, 3600 Bay Area Blvd., Houston, TX 77058. Jan. 1993 - Aug. 1993; July 1991; June-July, 1984; Dec 1981; Feb 1977 – Dec 1977.

Curator and Associate Scientist, Department of Geology, Indiana University, Bloomington, Oct. 1977 - Aug. 1982.

Geologist, Coal Wing, Geological Survey of India, Calcutta 700016. Aug. 1963- Feb. 1977 (on leave from Jul. 1971 - Jul. 1976).

Post-doctoral Fellow, Harvard College & Smithsonian Astrophysical Observatory, 60 Garden Street, Cambridge, MA 02138. Jun 1975 - Jul 1976.

Research Fellow, Department of Geology, Calcutta University, Calcutta 700019, India. Jun 1962 - Aug 1963.

Awards etc.:

Herman B Wells Endowed Professorship, Indiana University, 2003-2008.

Felicitated by the *National Geophysical Research Institute (India)* and the *Indian Society of Applied Geochemists* Special Event, Hyderabad, India, 2007

Distinguished Service Award, Geological Society of America, 2006

Distinguished Service Award, Indiana University, 1997

Distinguished Service Award, Cultural Association of Bengal (North America), 1994

Teaching Recognition, Department of Geology, I.U., Bloomington, 1997, 1998, 2000, 2003, 2010

Outstanding Graduate Student, Department of Geology, I.U., Bloomington, 1973.

Fulbright-Smithmund Travel Grant, U.S. Educational Foundation, 1971.

Silver Medal and Second Prize for M.Sc. Examination, Calcutta University, India, 1961.
Gold Medal for All Round Proficiency, Ballygunge Govt. HS, Calcutta, India, 1954.

Professional Activities:

International Coordinator, "Proterozoic Earth and Boring Billion", 36th International Geological Congress
Co-Editor-in-Chief, Journal of Indian Association of Sedimentologists, 2017 – present.
Member, Board of Associate Editors, Sedimentary Geology, 2016 – present.
Associate Editor, Journal of the Geological Society of India, 2009 - present
Member, Editorial Board, Periodico di Mineralogia, Italy, 2008 – 2012
Member, Editorial and Advisory Boards, International Journal of Earth Sciences and Engineering, 2008- 2015.
Member Executive/Advisory Council, Indian Society of Applied Geochemistry, 2013- 2016.
Foreign Secretary, Indian Association of Sedimentologists, 1990 - 2006.
Member, Editorial Board, Journal of Applied Geochemistry, 2008 – 2011
Member, International Technical Committee, Sedimentary Processes and Metallogeny through Time (SPMT, Dharwar, January 2014), 2013-2014
Member, Advisory Committee, International Workshop on Magmatic Ore Deposits-2012, Bangalore, India)
Foreign Secretary, Indian Society of Applied Geochemistry, 2011 - 2013.
Member, Advisory Committee, International Symposium on Precambrian Accretionary Orogens (Delhi, Feb 2011), 2010-2011
Member, Advisory Committee, International Conference on Paleoproterozoic Supercontinents and Global Evolution (Kolkata, Nov 2009), 2009
Member, Science Board, International Research School of Planetary Sciences, University of "G. d'Annunzio", Italy, 1999 - 2009
Science Editor, Geological Society of America Books, 1996 – 2006
Member, Publications Committee, Geological Society of America, 1996-2006
Member, Wilson Medal Selection Committee, SEPM, 2005
Panelist, NASA Grant Review Panels (PIDDP 2001; LASER 2008; NLSI 2008)
Member, Scientific Organizing Committee, Conference on Earth-Moon Relationships, Academia Galileiana, University of Padova, Italy, 2000
Co-Editor, Quantitative Provenance Studies in Italy, Memoir of the Geological Survey of Italy, (2004)
Associate Editor, Journal of Sedimentary Petrology/Research, 1993 - 1999
Associate Editor, Proc. Lunar Science Conference 7th, 1976.
Associate Editor, Proc. Lunar and Planetary Science Conference 12th, 1981.
Co-Editor, Geological Society of America, Special Paper 284, Processes Controlling the Composition of Siliciclastic Sediments (1993)
Reviewer, Bhatnagar Awards, CSIR Govt. India, 2012 – present.
Reviewer, Grant Applications, NASA. 1975 - present. Reviewer, Grant Applications, NSF. 1985 - present.
Reviewer, Grant Applications, Los Alamos Nat'l. Lab. 1986.
Reviewer, Grant Applications, Am. Chem. Soc., PRF, 1986 - present.

Foreign Correspondent, Indian Society of Earth Sciences, 1986 - 2000.
Member, Lunar and Planetary Sample Team, NASA. 1987 - 1989.
Member, Program Committee, 19th Lunar & Planetary Science Conference, 1988.
Member, Program Committee, 20th Lunar & Planetary Science Conference, 1989.
Regional Correspondent, Smithsonian-SEAN, 1984 - 1992.
Secretary, Sigma Xi, I.U. Chapter. 1993 - 1998.
President (& President-elect), Sigma Xi, I.U. Chapter, 1985-87; 2003-07.
President, Great Lakes Section, SEPM Society for Sedimentary Geology, 1988-89.
Chair, Developing Countries Library Committee, SEPM, 1990-1995 (Member, 1988-1995).
Member, Publications Policy Committee, SEPM, 1997-2000.
Member, Nominating Committee, SEPM, 1990; 1992; 1994.
Chair, Ad Hoc Committee on Awards Banquet Format, SEPM, 1990-91
Member, Working Committee for the Centenary Celebrations of the Department of Geology,
Presidency College, Calcutta, 1990-1992.
Co-Convener, Theme Session on Processes Controlling the Composition of Siliciclastic
Sediments, Geological Society of America, Annual Meeting, 1991
Member, Audit Committee, Indiana Academy of Sciences, 1992
Guest Moderator, Sedimentary Petrology Seminar, Italian Sedimentology Group, Parma, 1992.
Co-Convener, Workshop on Quantitative Provenance Analysis, Italian Sedimentology Group,
Parma, 1992
Member, Organizing Committee, Workshop on the Geology and Petrology of the Apollo 15
Landing Site, Lunar and Planetary Institute. 1985.

Reviewer of papers and books for professional journals and publishing houses:

Icarus

Geology

Sedimentology

Basin Research

Bulletin, AAPG

Economic Geology

Journal of Geology

Geological Journal

Gondwana Research

Geological Quarterly

Geoscience Frontiers

Geological Magazine

Sedimentary Geology

Precambrian Research

Earth Science Reviews

American Mineralogist

Earth, Moon and Planets

Iberian Journal of Geology

Paleontologica Electronica

Planetary and Space Science

Global and Planetary Change
Geophysical Research Letters
Journal of Asian Earth Sciences
Indian Journal of Earth Sciences
Journal of African Earth Sciences
Journal of Earth Systems Science
Journal of Geophysical Research
Journal of African Earth Sciences
Meteoritics and Planetary Science
Geochimica et Cosmochimica Acta
Memoir, Geological Survey of Italy
Earth and Planetary Science Letters
Journal, Geological Society (London)
Contributions to Sedimentary Geology
International Journal of Earth Sciences
Journal of the Geological Society of India
Revista Mexicana de Ciencias Geológicas
Reviews of Geophysics and Space Physics
Journal of Sedimentary Petrology/Research
Journal of Geological/Geoscience Education
Special Paper, Geological Society of America
Bulletin of the Geological Society of America
Special Publications, Geological Society of London
Palaeogeography, Palaeoclimatology, Palaeoecology
Proceedings, Lunar and Planetary Science Conferences
Memoir, American Association of Petroleum Geologists
Platinum Jubilee Series of Publications, Indian Statistical Institute
Quarterly Journal, Geological, Mining, and Metallurgical Society of India
McGraw Hill
Academic Press
Freeman Publishers
Scott, Foresman Inc.
Wadsworth Publishers

Referee for various tenure/promotion cases of universities in the U.S. and Abroad

External Examiner Ph.D. Committees:

IIT, Bombay, India
IIT, Kharagpur, India
Mysore University, India
Annamalai University, India
Karnataka University, India
Mangalore University, India
Sri Venkateswarya University, India

Manonmaniam Sundaranar University, India

Membership etc.:

Fellow, Geological Society of India
Fellow, Geological Society of America
Member, SEPM Society for Sedimentary Geology
Life Member, Indian Association of Sedimentologists
Life Member, Indian Society of Applied Geochemists
Member, International Association of Sedimentologists
Life Member, American Association of University Professors
Life Fellow, Geological, Mining, and Metallurgical Society of India
Life Fellow, Mining, Metallurgical, and Geological Institute of India

Research Grants

NASA (1978-2005); NSF (1985-87; 1991-93); KECK Foundation (1992)

Committees within IU:

Departmental: Policy; Advisory, Budget; Staff Review; Graduate Studies; Undergraduate Studies; Colloquium; Computer; Alumni Council; External Relations; Honors Adviser; Chair Review; Chair Search; Faculty Search; Owen Award; Alumni Relations; IT; Chair; etc.

College: Promotion Committee; Collins Advisory Board (including Chair); Collins Curriculum; Collins Review (Chair); Collins Director Search and Screen (Chair); Honors Division/College Scholarship (including Chair); Honors Division Faculty Selection; India Studies (Chair, Program Development; Advisory Council; Fund-raising Campaign); Academic Fairness; Honors Division Director Review; Evaluator, Wells Scholar Applications; External Review – Department of Astronomy (IU); IMP – Advisory Board, Faculty Committee; etc.

Campus: Multidisciplinary Seminar; Judicial Review; Patten Foundation (including Chair); Distinguished Service Award; Bloomington Faculty Council – MRE, FAC (Chair), NOM (Chair); Search & Screen (Library); Art Museum Policy Committee; VC (Admissions) Search Committee; DOF-FAR Com; Dean HHC Search Committee; VPUE Search Committee; Honors College Scholarship Committee (previously under College); Wells Scholar Application Review and Interviews (previously under College); Panelist- ACC/APAFSC; etc.;

System: Honorary Degrees, IU (including Chair)
University Faculty Council – member; FAC – CoChair;
Society for Advanced Studies (Secretary and Member - Board of Directors)

Courses:

Journey to Mars (Freshman)
 Historical Geology (Freshman)
 Introductory Geology (Freshman)
 Evolution of the Earth (Freshman)
 The Evolving Earth (Freshman Seminar)
 Earth Materials and Earth Processes (Freshman)
 Geology of National Parks – Topics/IFS (Freshman)
 Space Resources and Space Settlements (Freshman)
 Elements of Geology I & II (Freshman Field Course)
 Exploring Mars- Topics, General and IFS (Freshman)
 Search for Life in Martian Rocks – Topics/IFS (Freshman)
 Meteorites and Planets - Topics, General, and Honors (Freshman)
 Understanding Earthlike Planets (Freshman – Critical Approaches)
 (Revised and renamed: Earth Processes and Planets)
 Environmental Geology (Junior)
 Physics, Chemistry, Minerals and Rocks (Junior-Senior; at U. Parma, Italy)
 Field Geology of the Rocky Mountains (Senior)
 Theory of the Earth - Honors College Seminar (Undergraduate)
 Lunar Sample Research - Honors Division Seminar (Undergraduate)
 Behavior of the Earth - Honors Division Seminar (UG *intensive writing*)
 Geology of Sculptors' Material - Honors Division Topics Seminar (Undergraduate)
 Gas Prices and Petroleum Geology - Honors College Topics Seminar (Undergraduate)
 Origin and Evolution of Rocky Planets - Honors Division Topics Seminar (Undergraduate)
 Earth Resources for Comfortable Living - Honors Division Seminar (UG *intensive writing*)
 Coal Petrology (Graduate)
 Electron Microprobe (Graduate)
 Siliciclastic Seminar (Graduate)
 Lunar Petrology Seminar (Graduate)
 Origin of Sedimentary Rocks (Graduate)
 Proterozoic Sedimentary Basins (Graduate)
 Siliciclastic Sediments and Rocks (Graduate)
 Petrography of Extra-Terrestrial Materials (Graduate)
 Detrital Zircon/Monazite Geochronology Seminar (Graduate)
 Geological Writing (University of Parma, Italy)
 Petrology of Lunar and Martian Rocks (Graduate-Senior; at U. d'Annunzio, Italy)
 IU Mini-University – several on Earth and Planetary Sciences

Other Relevant Activities:

Faculty Advisor - Indian Students Assoc. (1984-1988; 1990-1992; 2004- 2016)
 - Bangladesh Students Assoc. (1983-1986)
 - Sigma Gamma Epsilon, Rho Chapter (1982-83)
 University Club, Indiana University
 - President/President-elect (1983-85)
 - President/Vice-President, MFC (1990-92)

- Nominating Committee (1997)
- Membership Committee, MFC (2008)

Faculty Mentor/Ally, Read Center (1989-1991; 1999-2000)
 Residential Fellow, Briscoe Center (2000-2001)
 FOCUS Lecture, 1992
 HSSI Advisor (1981-1992)
 IN Jr Acad Sci Reviewer (1994-96)
 Metz Banquet Keynote Speaker (1996)
 Admissions Office Freshman Forum/Indiana Overview/Professor's Perspective (1997- present)
 Office of Diversity: Pathfinder Lecture (2006 – 2014)

Extramural:

President, Tri-State Durga Puja, 1998
 Keynote Speaker, Tagore Festival, Channing-Murray Foundation, U of IL, Urbana, 2001
 Member, Executive Committee, Middle America Bengali Association (1999-2006)
 Member, Election Committee, Middle America Bengali Association (2008 - present)
 Member, Election Committee, Tri-State Durga Puja (2004; 2007-08)

Research Supervision of UNDERGRADUATE Students

Graduated Nine Undergraduate Research Students:

Elizabeth Blair; Kathleen Kordesh; David Kring; Christine Heavilon; Tammie Gerke; Deborah Zervas; Elizabeth Shaffer; Ralph Milliken; Antonio Buono (all attended/attending graduate schools, including Harvard, M.I.T., Brown, and CALTECH, with full support).
 Sue Riegsecker, a returning student joined the workforce instead of going to graduate school.

Undergraduate Research Award (COAS): Elizabeth Blair
 Kathleen Kordesh
 David Kring

Undergraduate Research Award (Sigma Xi): Elizabeth Blair
 Kathleen Kordesh
 David Kring
 Christine Heavilon
 Elizabeth Shaffer

Presentation of papers: nine students have presented one or more research papers in at least one international meeting, in addition to some at national meetings, and a few regional meetings.

Publication by Undergraduate Students :

Two *single-authored* peer-reviewed papers; at least four other co-authored.
 ~ 18 extended abstracts, - majority co-authored.
 ~ 8 regular abstracts, - majority co-authored.

Post-graduate achievements by the above mentioned students are not included.

Research Supervision of GRADUATE Students

NO Ph.D. student graduated.

Two A.M./M.S. students graduated:

Karen Houck (1982): She published two peer-reviewed papers, two extended abstracts, and one regular abstract from her thesis; all were singly-authored, i.e. none were co-authored with me. She also made presentations at one national and one international meeting.

Carol Bangs (1988): She published one extended abstract, and two regular abstracts, and one peer-reviewed paper, which were all co-authored with me. She made presentations at two national meetings.

Research with VISITING SCIENTISTS and POST-DOCTORAL Fellows at IU

Professor Mohamud Abdi Arush, Somalia National University (now in exile), Senior Fulbright Fellow in 1987. The product is a co-authored peer-reviewed paper.

Dr. Emanuela Molinaroli, Associate Professor, University of Venice. The product of our research includes several co-authored peer-reviewed papers, abstracts, and presentations. (at IU intermittently from 1985 to 1994)

Dr. Elena Spadafora, Research Scientist, AGIP, Italy (at IU in early 90s)

Professor Atef Ibrahim, Al Azhar University, Egypt (at IU in mid-late 90s)

Dr. Mihaela Glamoclija, Geophysical Laboratories, Carnegie Institute. Post doctoral Fellow at IU (2005-07). Product – one co-authored paper and two abstracts.

Dr. Sarbani Patranabis Deb, GSU- ISI, India. Product – co-authored peer-reviewed papers, abstracts, and presentations. Collaborative research is continuing (2005 – present).

Dr. V. S. Hegde, Professor and Dean, SDM Engg College, India (at IU in 2009). Collaborative research is continuing (2009 – present).

ADMINISTRATIVE EXPERIENCE

Dates	Position	Responsibilities
1963-66	Asst. Geol., GSI	In charge of exploration and drilling in a part of the Singrauli coal field; supervising the operation of two drilling rigs, one surveyor, and about 60 other personnel in one camp.
1966-68	Geologist, GSI	In charge of sedimentology lab of the Coal Division Headquarters; supervision of two technical and two other staff.
1968-71	Geologist, GSI	In charge of exploration and drilling in the Karanpura and Singrauli coal fields; overseeing and supervising the

1982-87	Assoc. Professor	operation of up to eight drilling rigs, three surveyors, and about 200 personnel in six camps. Supervision of electron microprobe, and X-ray diffraction analysis laboratories of the Department of Geology.
1984-87	Assoc. Chair	Mainly assisting the Chairman in day to day operations, long term planning, preparing teaching schedule and the like, budget decisions including salary, maintaining external relations, etc.
2003-07	Chair	As customary in the College.

LIST OF PUBLICATIONS

Peer-Reviewed Papers

1. Some sedimentological aspects of the northeastern part of the Singrauli Coalfield, M.P. by Abhijit Basu: Quart. Jour. Geol. Mining Met. Soc. India, v. 35, pp. 115-118 (1963)
2. On the layered ultrabasic and basic rocks of Nilgiri (86°22'E: 21°31'N), Balasore District, Orissa by Abhijit Basu: Quart. Jour. Geol. Mining Met. Soc. India, v. 35, pp. 161-163 (1963)
3. General geology of the northeastern part of the Singrauli Coalfield, M.P. by Abhijit Basu: Quart. Jour. Geol. Mining Met. Soc. India, v. 37, pp. 29-34 (1965)
4. Stratigraphic position of the Karharbaris in the Lower Gondwanas of India by P.K. Ghosh and Abhijit Basu: Proc. Intn'l. Symp. Gond. Strat. Pal., Mar del Plata, Argentina, UNESCO, pp. 407-419 (1966)
5. A note on the Archaean-Talchir faulted contact near Manhari, Sidhi District, M.P. by P.K. Ghosh and Abhijit Basu: Quart. Jour. Geol. Mining Met. Soc. India, v. 40, pp. 115-116 (1968)
6. A note on the classification of the Lower Gondwanas of India by P.K. Ghosh and Abhijit Basu: Record, Geol. Survey of India, v. 97, pp. 168-171 (1969)
7. Correlation of the intrusives of the Singrauli Coalfield, M.P. by Abhijit Basu and P.K.S. Guha: Indian Minerals, v. 24, pp. 390-394 (1971)
8. Some sedimentary structures from the North Karanpura Coalfield, Bihar by Abhijit Basu and P.K.S. Guha: Proc. Indian Natl. Sci. Acad., v. 37A, no. 6, pp. 399-410 (1971)
9. Monsoonal origin of graded rhythmites by Abhijit Basu: Quart. Jour. Geol. Mining Met. Soc. India, v. 43, pp. 171-173 (1971)
10. Coal deposits of the northeastern part of the Singrauli Coalfield: A summary by Abhijit Basu: in F. Ahmed (ed.), Gondwana System, Annal. Geol. Dept., A.M.U., Aligarh, v. 5/6, pp. 65-74 (1972)
11. Re-evaluation of the use of undulatory extinction and polycrystallinity in detrital quartz for provenance interpretation by Abhijit Basu, S.W. Young, L.J. Suttner, C. James, and G. Mack: Jour. Sed. Pet., v. 45, pp. 873-882 (1975)
12. Integrated investigation of the mixed origin of lunar sample 72161,11 by Abhijit Basu, D.J. DesMarais, J.M. Hayes, and W.G. Meinschein: The Moon, v. 14, pp. 129-138 (1975)
13. Evolution of carbon isotopes, agglutinates and the lunar regolith by D.J. DesMarais, Abhijit Basu, J.M. Hayes and W.G. Meinschein: Proc. Lunar Sci. Conf. 6th, v. 2, pp. 2353-2383 (1975)
14. Sanidine from the Mesa Falls Tuff, Ashton, Idaho by Abhijit Basu and Charles J. Vitaliano: Amer. Miner., v. 61, pp. 405-408 (1976)
15. Petrology of Holocene fluvial sand derived from plutonic source rocks: implications to paleoclimatic interpretation by Abhijit Basu: Jour. Sed. Pet., v. 46, pp. 694-709 (1976)
16. An example of a thermally metamorphosed agglutinate by Abhijit Basu: Meteoritics, v. 11, pp. 207-216 (1976)
17. Petrography of KREEP basalt fragments from Apollo 15 soils by Abhijit Basu and Janice F. Bower: Proc. Lunar Sci. Conf. 7th, pp. 659-678 (1976)
18. Agglutinates and carbon accumulation in Apollo 17 lunar soils by Abhijit Basu and W.G. Meinschein: Proc. Lunar Sci. Conf. 7th, v. 1, pp. 337-349 (1976)
19. Structural state of detrital alkali feldspars by L.J. Suttner and Abhijit Basu: Sedimentology, v. 24, pp. 63-74 (1977)
20. A brief review of the petrology of lunar mare basalts and a case study by Abhijit Basu and Janice F. Bower: Indian Jour. Earth Sci., v. 4, pp. 1-12 (1977)
21. Provenance and Al/Si order-disorder of detrital alkali feldspars by Abhijit Basu: Jour. Geol. Soc. India, v. 18, pp. 477-492 (1977)
22. Stratigraphic models for the Lower Gondwana Coal Measures of India by Abhijit Basu: Proc. IVth Intn'l. Gondwana Symp., India, I.U.G.S. (UNESCO), pp. 496-507 (1977; pub. 1980)
23. Provenance of Apollo 15 deep drill core sediments by Abhijit Basu and Janice F. Bower: Proc. Lunar Sci. Conf. 8th, pp. 2841-2867 (1977)

24. Steady state, exposure age and growth of agglutinates in lunar soils by Abhijit Basu: Proc. Lunar Sci. Conf. 8th, pp. 3617-3632 (1977)
25. Grain size and evolution of Luna 24 soils by D.S. McKay, Abhijit Basu, and G.A. Waits: in Mare Crisium: The View from Luna 24, Pergamon. pp. 125-136 (1978)
26. Origin and modal petrography of Luna 24 soils by Abhijit Basu, D.S. McKay and R.M. Fruland: in Mare Crisium: The View from Luna 24, Pergamon, pp. 321-337 (1978)
27. Clast-laden nature and the origin of Luna 24 olivine-vitrophyres by Abhijit Basu, D.S. McKay and R.M. Fruland: Proc. Lunar and Planet. Sci. Conf. 9th, pp. 535-546 (1978)
28. Petrography and provenance of Apollo 15 soils by Abhijit Basu and David S. McKay: Proc. Lunar Planet. Sci. Conf. 10th, pp. 1413-1424 (1979)
29. A note on the Apollo 15 green glass vitrophyres by Abhijit Basu, David S. McKay, Craig H. Moore, and Nelson R. Shaffer: Proc. Lunar Planet. Sci. Conf. 10th, pp. 301-310 (1979)
30. Lunar core 15010/11: Grain size, petrology, and implications for regolith dynamics by D.S. McKay, Abhijit Basu, and G.A. Nace: Proc. Lunar Planet. Sci. Conf. 11th, pp. 1531-1550 (1980)
31. Petrography of Lunar soil 15601 by Abhijit Basu, D.S. McKay, G.A. Nace, and S.A. Griffiths: Proc. Lunar Planet. Sci. Conf. 11th, pp. 1727-1741 (1980)
32. Weathering before the advent of land plants: Evidence from unaltered detrital K-feldspars in Cambro-Ordovician arenites by Abhijit Basu: Geology, v. 9, pp. 132-133 (1981)
33. Climate and the origin of quartz arenites by L. J. Suttner, Abhijit Basu, and G. H. Mack: Jour. Sed. Pet., v. 51, pp. 1235-1246 (1981)
34. Petrology of Apollo 15 Station 9A surface and drive tube soils by S.A. Griffiths, Abhijit Basu, D. S. McKay, and G. Nace: Proc. Lunar Planet. Sci. Conf. 12th, pp. 475-484 (1981)
35. Regolith maturation on the Earth and the Moon: Basis and constraints for a comparative study by Abhijit Basu, D. S. McKay, S. A. Griffiths, and G. Nace: Proc. Lunar Planet. Sci. Conf. 12th, pp. 433-449 (1981)
36. Weathering before the advent of land plants: Evidence from unaltered detrital K-feldspars in Cambro-Ordovician arenites (Reply) by Abhijit Basu: Geology, v. 9, pp. 505-506 (1981)
37. Rare earth elements in the sedimentary cycle: A pilot study of the first leg by Abhijit Basu, D. P. Blanchard, and J. C. Brannon: Sedimentology, v. 29, pp. 737-742 (1982)
38. The production curve for agglutinates in planetary regoliths by D. S. McKay and Abhijit Basu: Proc. Lunar Planet. Sci. Conf. 14th, Jour. Geophys. Research (JGR) (Suppl.), v. 88, pp. B193-B199 (1983)
39. Petrologic comparisons of Cayley and Descartes on the basis of Apollo 16 soils from Stations 4 and 11 by Abhijit Basu and D. S. McKay: Proc. Lunar and Planet. Sci. Conf. 14th, JGR (Suppl.), v. 89, pp. B535-B541 (1984)
40. Petrologic profile of Apollo 16 soils at Station 4 by Abhijit Basu and D. S. McKay: Proc. Lunar Planet. Sci. Conf. 15th, JGR (Suppl.), v. 89, pp. C133-C142 (1984)
41. Chemical variability and origin of agglutinitic glass by Abhijit Basu and D. S. McKay: Proc. Lunar Planet. Sci. Conf. 16th, JGR (Suppl.), v. 90, pp. D87-D94 (1985)
42. "The effect of grain size on detrital modes: A test of the Gazzi-Dickinson point-counting method" Discussion by L. J. Suttner and Abhijit Basu: Jour. Sed. Pet., v. 55, pp. 616-617 (1985)
43. Stratigraphic significance of lava fountain glass spherules in lunar soils by Abhijit Basu: Indian Jour. Earth Sciences, v. 13, pp. 1-13 (1986)
44. Chemical compositions of coexisting sulphides in ores from central sections, Mosabani mines by S. N. Sarkar and Abhijit Basu: in Geology and Geochemistry of Sulphide Ore Bodies and Associated Rocks in Mosabani and Rakha Mines Sections in the Singhbhum Copper Belt (Sarkar, S. N., ed.), Indian School of Mines, Dhanbad. pp. 111-121 (1986)
45. Studio di minerali opachi in sabbie fluviali oloceniche e nelle corrispondenti rocce madri di zone sottoposte a climi diversi (Montagne Rocciose e Monte Appalachi in U.S.A.) by E. Molinaroli and Abhijit Basu: Rend. Soc. Ital. Miner. Petrol. v. 42, pp. 271-283 (1987)
46. Petrology and provenance of Apollo 15 drive tube 15007/8 by Abhijit Basu, D.S. McKay, and T. Gerke : Proc. Lunar Planet. Sci. Conf. 18th, Cambridge Univ. Press, New York, pp. 283-298 (1988)
47. Chemical variability of glass clasts in Apollo 16 regolith breccias by C. Heavilon and Abhijit Basu : Indian. J. Earth Sci., v. 15, pp. 87-102 (1988)

48. Geochemical signature of provenance in sand-size material in soils and stream sediments near the Tobacco Root Batholith, Montana by R.L. Cullers, Abhijit Basu, and L.J. Suttner: *Chem. Geol.*, v. 70, pp. 335-348 (1988)
49. Provenance characteristics of detrital opaque Fe-Ti oxide minerals by Abhijit Basu and Emanuela Molinaroli: *J. Sedimentary Petrology*, v. 59, pp. 922-934 (1989)
50. Europium anomalies in mare basalts as a consequence of mafic cumulate fractionation from an initial magma ocean by James G. Brophy and Abhijit Basu: *Proc. Lunar Planet. Sci. Conf. 20th*, Lunar and Planetary Institute, Houston, pp. 25-30 (1990)
51. The relationship between orbital, earth-based, and sample data for lunar landing sites by Pamela E. Clark, B. Ray Hawke, and Abhijit Basu : *Proc. Lunar Planet. Sci. Conf. 20th*, Lunar and Planetary Institute, Houston, pp. 147-160 (1990)
52. Recycled grains in lunar soils as an additional, necessary, regolith evolution parameter by Abhijit Basu : *Proc. Lunar Sci. Conf. 20th*, Lunar and Planetary Institute, Houston, pp. 231-238 (1990)
53. Manganian andalusite from Manbazar, Purulia District, West Bengal, India by Kumkum Acharyya, S. Mukherjee, and Abhijit Basu : *Min. Mag.*, v. 54, pp. 75-80 (1990)
54. Petrology of the nepheline syenites from Santuri, Purulia District, West Bengal, India by Tandra Bhaumik, S. Mukherjee and Abhijit Basu: *J. Geol. Soc. India*, v. 36, pp. 589-606 (1990)
55. Reliability and application of detrital opaque Fe-Ti oxide minerals in provenance determination by Abhijit Basu and Emanuela Molinaroli: *Spec. Pub., Geol. Soc. Lond.*, No. 57, pp. 55-65 (1991)
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