

1. Name: **ASHISH KUMAR GHOSH**

2. Date of Birth: 06-10-1977

3. Current Position and Address: Senior Scientist, Fuel Science Division,
(with E-mail & Phone no.) CSIR – CIMFR, Digwadih, Post – F, R. I.,
Dhanbad – 828108, Jharkhand, India
Email : akgcfri@rediffmail.com
Phone : 9431513814



4. Educational qualifications: (Graduation and above)

Sl. No	Degree/ Certificate	Year of Passing	University/ Institute	Subjects
i	BSc (Chemistry Honours)	1998	Raj College, University of Burdwan, Burdwan (WB)	Chemistry(Hons), Physics, Mathematics
ii	MSc (Chemistry)	2000	University of Burdwan, Burdwan (WB)	Physical Chemistry (Special paper), Inorganic Chemistry, Organic Chemistry, Nuclear and Analytical Chemistry
iii	PhD (Chemistry)	2011	University of Burdwan, Burdwan (WB)	Chemistry

5. Work experience

Sl no.	Designation	Institution/ company	From	To	Nature of work
---------------	--------------------	-----------------------------	-------------	-----------	-----------------------

i	Part-time Lecturer Chemistry	in	Maharaja Uday Chand Women's College, Burdwan, WB	06-09-2000	31-01-2001	Teaching
ii	Part-time Lecturer Chemistry	in	Raj College, Burdwan, WB	12-09-2000	07-05-2001	Teaching
iii	Part-time Lecturer Chemistry	in	Dr. BBhupendranath Smriti Mahavidyalaya, Burdwan, WB	01-11-2000	31-03-2001	Teaching
iv	Scientist - B		CSIR-Central Institute of Mining and Fuel Research, Dhanbad, Jharkhand, India (Erstwhile Central Fuel Research Institute)	10-05-2001	09-05-2005	R & D
v	Scientist - C		CSIR-Central Institute of Mining and Fuel Research, Dhanbad,	10-05-2005	09-05-2009	R & D
vi	Senior Scientist		CSIR-Central Institute of Mining and Fuel Research, Dhanbad,	10-05-2009	Contd.	R & D and Teaching

6. Area of specialization: Synthesis of Carbon Nanomaterials from Coal & Lignite, Coal Liquefaction, Basic studies on coal (conventional and instrumental methods)

7. Honors/Awards received:

8. Fellowships/Scholarships:

9. No. of Research Publications:

- Papers in journals: 14
- In conference proceedings: 02
- Invited/key-note addresses: 01
- List of best 05 publications:

1. Spectrophotometric study of molecular complex formation of Asphaltene with two isomeric chloranils.
A. K. Ghosh^{*}
Fuel (Elsevier) 84 (2005) 153
2. Evidence of Molecular Complex Formation Between Asphaltene and o-Chloranil in Aqueous Micellar Medium : A spectrophotometric study.
P. Chaudhuri, **A. K. Ghosh**^{*}, S. S. Panja
Fuel (Elsevier) 112 (2013) 466
3. Absorbance spectrometric study of electron donor acceptor complexes of coal derived asphaltene with [60]- and [70]fullerenes
P. Chaudhuri, **A. K. Ghosh**^{*}, S. S. Panja
Fuel (Elsevier) 126 (2014) 69
4. Formation of single and multi-walled carbon nanotubes and graphene from Indian bituminous coal.
S. Awasthi, K. Awasthi, **A. K. Ghosh**, S. K. Srivastava, O. N. Srivastava^{*}
Fuel (Elsevier) 147 (2015) 35
5. Graphene decorated with Fe nanoclusters for improving the hydrogen sorption kinetics of MgH₂ – Experimental and theoretical evidence.
M. S. L. Hudson^{*}, K. Takahashi^{*}, A. Ramesh, S. Awasthi, **A. K. Ghosh**, P. Ravindrana, O. N. Srivastava
Catalysis Science & Technology (Royal Society of Chemistry) 6 (2016) 261

10. Number of Books authored/edited:

11. (a) No. of Patents granted/applied for: 01

(b) Technologies developed, Licensed and/or commercialized: 02

12. Foreign visits: 01

13. Details of Professional memberships:

Life Member (Chemical Research Society of India) LM 892

Life Member (Material Research Society of India) LMB 889

14 . Major contributions: (Max. 150 words):

- Synthesis of advanced futuristic nanomaterials (Fullerenes, CNT) from coal.
- ‘Host-Guest’ studies involving coal and asphaltenes.

- Studies on coal and asphaltenes with FTIR, UV-Vis, Fluorescence, HPLC, Langmuir Blodgett Film Deposition system, Tensiometer.
- Fundamental studies on coal science comprising coal chemistry, constitution and its structure by conventional chemical analysis.
- Studies (Laboratory and Pilot Scale) on direct conversion of coal to liquefied products.
- Chromatographic separation of coal liquids.
- Theoretical studies on coal models.

ACSIR Lectures on:

Advanced Coal Science that includes Coal solubilisation, pyrolysis, oxidation and spontaneous combustion.

15. Technologies and Products/ Services

- (i) Developed: 02
- (ii) Licensed:
- (iii) Commercialized:

16. Designs and Prototype Developed:

17. Honours and awards won for technological contributions or sociological impact of R&D:

Signature