**Curriculum Vitae**

**Name** **BRIJ K. DHINDAW**

 Visiting Professor,

School of Minerals Metallurgical

and Materials Engineering

Indian Institute of Technology, Bhubaneswar

# Professional Experience

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| **Organization** | **Nature of work** | **Duration** |
| **1** | **Brunel University, UK** | **Visiting Professor** | **2013 -2014** |
| **2** | **Indian Institute of Technology Bhubaneswar, INDIA** | **Professor Emeritus** | **2012-2013** |
| **3** | **Universiti Sains Malaysia** | **Visiting Professor** | **2011-2012** |
| **4** | **Indian Institute of Technology Ropar, INDIA** | **Visiting Professor & Dean (A&R)** | **2009- 2011(August)** |
| **5** | **McMaster University, Hamilton, Canada** | **Visiting Professor** | **May-July2008** |
| **6** | **Brunel University, London, UK** | **Visiting Scientist** | **May -July2007** |
| **7** | **GKSS Research Center, Geesthact, Germany** | **Visiting Scientist** | **May-June 2006** |
| **8** | **Royal Institute of Technology, Stockholm, Sweden** | **Guest Professor** | **May-June 2005** |
| **9** | **Ames Laboratory, Iowa State University, Ames, USA** | **Visiting Scientist** | **May-July 2004** |
| **10** | **Osaka University, Japan** | **Special Visiting Professor** | **May-July 2003** |
| **11** | **Royal Institute of Technology, Stockholm, Sweden** | **Visiting Professor** | **2002-2003** |
| **12** | **University Space Research Association, NASA Huntsville, AL, USA** | **Visiting Scientist/ Consultant** | **1997** |
| **13** | **Metallurgical Engineering Department, University of Alabama, Tuscaloosa, AL,USA**  | **Visiting Scholar** | **1991-1992****1995 -1996** |
| **1986-1988** |
| **14** | **Ames Laboratory, Iowa State University, Iowa, USA****Leningrad Polytechnic, USSR** | **Research Associate****Stazer** | **1978-1979****1970-71** |
| **15** | **Indian Institute of Technology, Kharagpur** | **Teaching &Research (Faculty) in Metallurgical and Materials Engineering Department/Material Science Centre (1970-78) Professor since 1981** | **1966-2009** |

 **Notable academic and related achievements**:

* Ranked first in order of merit in B.Tech course at IIT Kharagpur
* Guided eleven Ph.D thesis and several Masters and Bachelors thesis.

 **Tweleve Ph.D and several Masters thesis**

* As Dean Post Graduate Studies of IIT Kharagpur apart from handling the routine academic activities of more than 50 postgraduate programmes of IIT Kharagpur, helped the academic bodies of the Institute to organize and introduce the first Masters Programme in Medical Science and Technology, for students with MBBS qualification at IIT Kharagpur.
* Helped the academic bodies at IIT Kharagpur to organize and introduce industry sponsored Post Graduate Diploma course in Steel Technology
* Awarded Ministry of Education and Cultural Affairs Japan Government Special Visiting Professor position at Osaka University, Osaka, Japan
* Fellowship at Royal Institute of Technology, Stockholm, Sweden as Guest Professor
* Member Editorial Board, International Journal of Cast Metals Research
* Written a section ‘behavior of insoluble particles at the solid/liquid interface’ by invitation in the Metals handbook Vol.15, published by ASM International pp 142-147
* On the review panel of several International Journals
* Convener of two International Conferences organized by IIT Kharagpur
* Was on the international science or advisory bodies of several international conferences organized in USA, Romania, Korea and currently in China.
* Plenary speaker, Chairman of sessions in several international and national conferences
* Reviewed several projects for funding agencies like, DST, DRDO, ARDB, CSIR
* Member Expert Panel appointed by RRL Trivandrum (CSIR) to review the Materials research and development activities
* **Delivered Invited lectures at following Institutions abroad;**
	+ **Argonne National Laboratory, USA**
	+ **Kyushu University Japan**
	+ **Swedish Steel Corporation SAAB, Sweden**
	+ **Kyoto University, Japan**
	+ **Dresden University, Germany**
	+ **Nagasaki University, Japan**
	+ **Technical University Aachen Germany**
	+ **Ames Laboratory of Department of Energy, USA**
	+ **North Carolina State University, USA**
	+ **Technical University of Berlin (HMI Institute), GermanySponsored Research Activities**:
* Has been P.I. for sponsored projects value from different agencies like,
	+ Council of Scientific and Industrial Research
	+ Defence Research and Development Organisation
	+ Aeronautics Research and Development Board
	+ Department of Science and Technology
	+ Ministry of Human Resource Development
	+ Technology Development Mission of Planning Commission
	+ Steel Development Funds of Ministry of Steel

Was Co-PI of one of the first large project at IIT Kharagpur worth Rs.7 lakhs in 1977 from the Department of Science and Technology on Preparation of Solar Grade Silicon from Rice Husk

At Universiti Sains Malaysia Initiated projects on bio-medical implants based on Mg alloys. Projects initiated in this and strip casting of Al alloys.

**Most recently PI/Co-PI of on going projects at IIT Kharagpur**

1.Rheo processing of Al and Mg base alloys by low shear, funded from DRDO through NMRL Ambernath

3. Thermal stress modeling and design of twin roll caster to obtain thin alloy sheet with extremely fine/amorphous structure “ DST, co-PI.

**Sponsored Research funding while on Study Leave abroad:**

* Was involved in the following sponsored research projects at the University of Alabama as Co-principal Investigator:
* Study of influence of gravity on the solidification of ceramic metal matrix composite materials.
* Solidification of particulate metal-matrix composite materials

**Special achievement as Investigator of the above projects:**

NASA, USA the sponsor of the first project recognized the major impact of the research outcome and after strict science and flight readiness review sponsored two experiment being flown on the Space Shuttle Columbia in 1996 and 1997 where Dr. Dhindaw was Co-PI. The experiment in the 1997 mission was handled by Late Dr. Kalpana Chawla as the pay load specialist on Space Shuttle COLUMBIA. Dr. Dhindaw was involved in the formulation of the science, design of the experiment, hardware, and on line monitoring of the experiments and analysis of the results.

**Consultancy:**

* Plasma/microwave coating on steel plates, Tata Steel (going on)
* Development of Copper-Nickel alloy wires for Shalimar Industries
* Process development at Hindustan Cables
* Technology review for producing new bi-metallic coins for India Government Mint
* Consultant to foundries in Howrah for process evaluation

**Research publications:**

**Published more than 175 original research papers in peer reviewed journals**

**Books Edited:**

* **Proceedings of the International Conference on Solidification Science and processing -2001, published by Science Publishers and Oxford-IBH Publishing Company**
* **Special issue of Transactions of the Indian Institute of Metals, an International Journal of Minerals, Metals and Materials Engineering on Solidification Science and Processing, vol.58, No.4 August 2005**
* **Chapter on Metal Matrix Composites: Aluminum, Wiley Encyclopedia of Composites, Second Edition 1999-2014, vol.3,pp 1659-1676,**

**Lecture packages prepared for CEP cell IIT Kharagpur:**

* Experiments in Foundry Technology, sponsored by QIP, Govt. of India
* Some aspects of manufacture of castings

**Student related activities:**

Worked as:

* + Adviser Tennis sub committee
	+ Adviser Athletics sub committee

#  Awards and Honours Received:

* **National Metallurgist Day Award from Government of Indian for outstanding contribution in Metal Sciences.**
* **Two certificates of recognition from National Aeronautic and Space Administration(NASA), USA.**
* **Silver Jubilee Research Award of I. I. T., Kharagpur.**
* **Presidential citation for outstanding services as Chairman of Examination Committee, Institution of Indian Foundrymen**

**Membership of Professional Bodies**:

 1) **Member - Metallurgical, Minerals and Materials Society (TMS), U.S.A.**

 2) Fellow - Institution of Engineers (I).

 3) Life Member - Indian Institute of Metals.

**Administrative others positions held:**

* **Head Metallurgical Engineering Department IIT Kharagpur**
* **Dean (Postgraduate Studies) IIT Kharagpur**
* **Chairman, Joint Entrance Examination committee for admissions to UG admissions at IIT Kharagpur**
* **Chairman, Graduate Aptitude Test for Engineering admissions, IIT Kharagpur**
* **Chairman Central Research Facility**
* **Member Board of Governors National Institute of Technology, Rourkela**
* **Member Research Council of National Metallurgical Laboratory, Council of Scientific and Industrial Research, Jamshedpur, India**
* **Dean (Academic & Research), Indian Institute of Technology, Ropar**
* **Chairman School of Mechanical, Materials and Energy Engineering, Indian Institute of Technology, Ropar**

**PUBLICATIONS LIST of Dr. Brij K. Dhindaw**

**2015**

1. [Effects of Processing Parameters on Microstructure Evolution of Al-7Si-Mg Alloy by Cooling Slope Casting](http://www.scopus.com/record/display.uri?eid=2-s2.0-84939966270&origin=resultslist&sort=plf-f&src=s&sid=FBF32BF2771D7BC747D21BA6CD7FB113.I0QkgbIjGqqLQ4Nw7dqZ4A%3a220&sot=autdocs&sdt=autdocs&sl=17&s=AU-ID%287004244705%29&relpos=0&citeCnt=1&searchTerm=), [Van Thuong, N.](http://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=55984420500&zone=), [Zuhailawati, H.](http://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=24077832000&zone=" \o "Show author details), [Abu Seman, A.](http://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=56543542800&zone=),TD Huy and BK Dhindaw  [Journal of Materials Engineering and Performance](http://www.scopus.com/source/sourceInfo.uri?sourceId=21160&origin=resultslist),24 (5), 2015, pp. 2108-2116
2. [Optimization of multiple responses using overlaid contour plot and steepest methods analysis on hydroxyapatite coated magnesium via cold spray deposition](http://www.scopus.com/record/display.uri?eid=2-s2.0-84944217914&origin=resultslist&sort=plf-f&src=s&sid=FBF32BF2771D7BC747D21BA6CD7FB113.I0QkgbIjGqqLQ4Nw7dqZ4A%3a220&sot=autdocs&sdt=autdocs&sl=17&s=AU-ID%287004244705%29&relpos=2&citeCnt=0&searchTerm=), [Hasniyati, M.R.](http://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=55935541000&zone=), [Zuhailawati, H.](http://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=24077832000&zone=" \o "Show author details),[Sivakumar, R.](http://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=56902316700&zone=" \o "Show author details), [Dhindaw, B.K.](http://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=7004244705&zone=" \o "Show author details), [Surface and Coatings Technology](http://www.scopus.com/source/sourceInfo.uri?sourceId=24537&origin=resultslist), 2015, 280, pp. 250-255
3. [Microstructural evolution and wear characteristics of equal channel angular pressing processed semi-solid-cast hypoeutectic aluminum alloys](http://www.scopus.com/record/display.uri?eid=2-s2.0-84921661351&origin=resultslist&sort=plf-f&src=s&sid=FBF32BF2771D7BC747D21BA6CD7FB113.I0QkgbIjGqqLQ4Nw7dqZ4A%3a220&sot=autdocs&sdt=autdocs&sl=17&s=AU-ID%287004244705%29&relpos=1&citeCnt=3&searchTerm=), [Thuong, N.V.](http://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=56492515500&zone=), [Zuhailawati, H.](http://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=24077832000&zone=" \o "Show author details),[Seman, A.A.](http://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=9043905200&zone=" \o "Show author details), [Huy, T.D.](http://www.scopus.com/authid/detail.uri?origin=AuthorProfile&authorId=55984251100&zone=" \o "Show author details) Brij Kumar Dhindaw, [Materials and Design](http://www.scopus.com/source/sourceInfo.uri?sourceId=17797&origin=resultslist" \o "Show source title details), 2015, 67, pp. 448-456

**2013-2014**

1. Twin Roll Casting of Aluminium Alloys – An overview, N. Barekar and B. K. Dhindaw, Materials and Manufacturing Processes, DOI: 10.1080/10426914.2014.912307, Published online: 28 Apr 2014.
2. Enhancing the Mechanical Properties of AE42 Magnesium Alloy through Friction Stir Processing, Harpreet Singh Arora, Harpreet Singh Grewal, Harpreet Singh, Brij Kumar Dhindaw and Sundeep Mukherjee\*,Advanced Engineering Materials,2013,15, DOI:10.1002/adem.201300440
3. Unusually high erosion resistance of zirconium-based bulk metallic glass, Harpreet Singh Arora, Harpreet Singh Grewal, Harpreet Singh, Brij Kumar Dhindaw and Sundeep Mukherjee, [Journal of Materials Research](http://journals.cambridge.org/action/displayJournal?jid=JMR) , Volume 28 , Issue 22 , pp 3185-3189.
4. [Mechanism of Microstructural Refinement of Al-Cu Alloy During Low Melt Sheared Slope Casting](http://www.scopus.com/record/display.url?eid=2-s2.0-84887886568&origin=resultslist&sort=plf-f&src=s&st1=dhindaw&st2=&nlo=1&nlr=20&nls=count-f&sid=40A9B709F1940D3CA0CDC606957A6D91.kqQeWtawXauCyC8ghhRGJg%3a63&sot=anl&sdt=aut&sl=39&s=AU-ID%28%22Dhindaw%2c+Brij+Kumar%22+7004244705%29&relpos=1&relpos=1&citeCnt=0&searchTerm=AU-ID%28%5C%26quot%3BDhindaw%2C+Brij+Kumar%5C%26quot%3B+7004244705%29), N.S. Barekar, R. Pradhan, and B.K. Dhindaw, Journal of Materials Engineering and Performance, DOI: 10.1007/s11665-013-0786-6, published on line 23rd November 2013
5. Wear Behaviour of a Mg Alloy Subjected to Friction Stir Processing, Dr. Harpreet Singh, Harpreet S Arora, M.Tech; B K Dhindaw, PhD,Wear, vol.303,no.1-2, pp.65-77,2013
6. Low-Convection-Cooling slope cast AlSi7Mg Alloy – A rheological perspective, R. Ritwik, A.K. Prasada Rao and B. K. Dhindaw, DOI: 10.1007/s11665-013-0530-2, published on line 29th March 2013, Journal of Material Engineering Performance, ASM
7. Corrosion Behavior of a Mg Alloy AE42 Subjected to Friction Stir Processing, H.S. Arora, H. Singh, and B.K. Dhinda, w (2013) Corrosion: February 2013, Vol. 69, No. 2, pp. 122-135.
8. Hydroxyapatite-Coated Magnesium-Based Biodegradable Alloy: Cold Spray Deposition and Simulated Body Fluid Studies Abdullah C.W. Noorakma, Hussain Zuhailawati, V. Aishvarya, and B.K. Dhindaw, Journal of Materials Engineering and Performance: Volume 22, Issue 10 (2013)**,** Page 2997-3004
9. [Microstructure-property relationship for friction stir processed magnesium alloy](http://www.scopus.com/scopus/inward/record.url?eid=2-s2.0-84883212922&partnerID=K84CvKBR&rel=3.0.0&md5=a7767e64dc93b89041f39568cd7b5ea4), [Arora, H.S,](http://www.scopus.com/authid/detail.url?authorId=49960963500&amp;eid=2-s2.0-84883212922) [Grewal, H.S.](http://www.scopus.com/authid/detail.url?authorId=55122447900&amp;eid=2-s2.0-84883212922), [Singh, H.](http://www.scopus.com/authid/detail.url?authorId=55627877323&amp;eid=2-s2.0-84883212922), [Dhindaw, B.K.](http://www.scopus.com/authid/detail.url?authorId=7004244705&amp;eid=2-s2.0-84883212922" \o "Show Author Details), [Mcphail, D.](http://www.scopus.com/authid/detail.url?authorId=7007090515&amp;eid=2-s2.0-84883212922" \o "Show Author Details), [Shollock, B.](http://www.scopus.com/authid/detail.url?authorId=6603538478&amp;eid=2-s2.0-84883212922" \o "Show Author Details)d, [Chater, R.](http://www.scopus.com/authid/detail.url?authorId=35241942300&amp;eid=2-s2.0-84883212922" \o "Show Author Details), [Mukherjee, S.](http://www.scopus.com/authid/detail.url?authorId=7401817071&amp;eid=2-s2.0-84883212922), Advanced Engineering Materials, 2013
10. [Corrosion behavior of a Mg alloy AE42 subjected to friction stir processing](http://www.scopus.com/scopus/inward/record.url?eid=2-s2.0-84876258683&partnerID=K84CvKBR&rel=3.0.0&md5=f6fae7b97e05b928ccd6c1fb218db6f9) , [Arora, H.S.](http://www.scopus.com/authid/detail.url?authorId=49960963500&amp;eid=2-s2.0-84876258683), [Singh, H.](http://www.scopus.com/authid/detail.url?authorId=35395439200&amp;eid=2-s2.0-84876258683), [Dhindaw, B.K.](http://www.scopus.com/authid/detail.url?authorId=7004244705&amp;eid=2-s2.0-84876258683" \o "Show Author Details), Corrosion, vol. 69, no. 2, pp. 122–135, 2013
11. High speed Twin Roll Casting of Aluminum-Copper Strips Having Layered Structure, S. Sahoo, Amitesh Kumar, B. K. Dhindaw and S. Ghosh , Materials and Manufacturing Processes, 28: 61–65, 2013

# Effect of Microstructural Evolution on the Properties of Friction Stir Processed Al 6061 Alloy Under Different Cooling Conditions, H.S. Arora, H. Singha, B. K. Dhindaw, and H.S. Grewal, Advanced Materials Research Vol. 620 (2013) pp 77-81 © (2013)

**September 2011-till November 2012**

1. Modeling and Experimental Validation of Rapid Cooling and Solidification during High-Speed Twin-Roll Strip Casting of Al-33 wt pct Cu , S. Sahoo, Amitesh Kumar, B. K. Dhindaw and Sudipto Ghosh, Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, pp. 1–10, 2012
2. Effect of Process Parameters on Splat Formation during Impingement of Liquid Metal Droplets over a Cold Substrate, Amitesh Kumar, Seshadev Sahoo, Sudipto Ghosh and Brij Kumar Dhindaw, Materials Science Forum Vol. 710 (2012) pp 186-191 © (2012) Trans Tech Publications, Switzerland doi:10.4028/www.scientific.net/MSF.710.186
3. Microstructure evolution under low shear rates during rheo processing of LM25 alloy, Sunitha Jallepalli Satya, Vivek Kumar, Nilam S Barekar, Koushik Biswas, Brij K. Dhindaw, DOI: 10.1007/s11665-012-0166-7, published on line 14th February 2012, Journal of Material Engineering Performance.

# Simulation of Cooling of Liquid Metal in an Inclined Slope to Predict the Condition for Semi Solid Forming and Its Experimental Validation,[Dhindaw, B.K.](http://www.scopus.com/authid/detail.url?authorId=7004244705&eid=2-s2.0-84867011948" \o "Show Author Details), [Kumar, M.](http://www.scopus.com/authid/detail.url?authorId=7403637359&eid=2-s2.0-84867011948), [Kumar, A.](http://www.scopus.com/authid/detail.url?authorId=54982767300&eid=2-s2.0-84867011948) [Transactions of the Indian Institute of Metals](http://www.scopus.com/source/sourceInfo.url?sourceId=12149&origin=recordpage" \o "Go to the information page for this source), 2012, Vol. 65, Issue 6, Pages 581-586.

# Numerical simulation of temperature distribution using finite difference equations and estimation of the grain size during friction stir processing , H.S. Arora, H. Singh, B.K Dhindaw, Materials Science and Engineering A, vol. 543, pp. 231–242, 2012

# Parametric Study of Friction Stir Processing of Magnesium-Based AE42 Alloy, H.S.Arora, H. Singh and B. K. Dhindaw, Journal of Materials Engineering and Performance, pp.1–12, 2012

# COMPOSITE FABRICATION USING FRICTION STIR PROCESSING- A REVIEW", Harpreet Singh Arora. Harpreet Singh and B. K. Dhindaw, International Journal of Advanced Manufacturing Technology, pp. 1–13, 2011

# Some observations on microstructural changes in a Mg- based AE42 alloy subjected to friction stir processing Harpreet Singh Arora, Harpreet Singh and B. K. Dhindaw, Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, vol. 43, no. 1, pp. 92–108, 2012

# Some Investigations on Friction Stir Processed Zone of AZ91 Alloy, [Arora, H.S.](http://www.scopus.com/authid/detail.url?authorId=49960963500&eid=2-s2.0-84867000632)ahttp://www.scopus.com/static/images/s.gif[Singh, H.](http://www.scopus.com/authid/detail.url?authorId=35395439200&eid=2-s2.0-84867000632), [Dhindaw, B.K.](http://www.scopus.com/authid/detail.url?authorId=7004244705&eid=2-s2.0-84867000632), [Grewal, H.S.](http://www.scopus.com/authid/detail.url?authorId=55122447900&eid=2-s2.0-84867000632) [Transactions of the Indian Institute of Metals](http://www.scopus.com/source/sourceInfo.url?sourceId=12149&origin=recordpage), 2012, Vol. 65, Issue 2, pp. 735-740.

# Improving the tribological properties of Mg based AZ31 alloy using friction stir processing, H.S. Arora1, a, H. Singh, , B.K. Dhindaw, and H.S. Grewal, Advanced Materials Research Vol. 585 (2012) pp 579-583

# Material Characterization of Al-Si/SiCpp Composite via Pressureless Infiltration using Polystyrene as External Binder A.S.Anasyida1,a, Norani Abdul Manaf1,b, B.K.Dhindaw1,c, Y.Mahani1,d Advanced Materials Research Vol. 626 (2013) pp 948-952

# [Metal matrix composites: aluminum, Singh, Harpreet; Dhindaw, Brij Kumar, Edited by Nicolais, Luigi; Borzacchiello, Assunta , Wiley Encyclopedia of Composites (2nd Edition) (2012), 3, 1659-1676](https://scifinder.cas.org/scifinder/references/answers/685BAFBAX86F35092X3DA16EE11291C6A10E%3A685CA359X86F35092X1B6AB3921EAD60A757/5.html?nav=eNpVkL8vg0EYx5--jYgwlEVEiMEgJPei-iskvNWqxpu3oohY5LSXennf915312oXYcBgMSiLoYONnfgTJEZhkYidVWJyb0vETZc8n_vc9_lev0OTAB8W0B-Ohqa1YCi2Eg3PBEPDsdGVkXhYiwdjoyNJLREe1iKhiETXOYP2TVzCyMJOAaUdQQqEdbzVLj_3j6IK-NLQVMJWkZQZBP44o2ivE3Z4Xe1pPX09VgDKLgD4pXBDQLe2tDibWVhLG8tJY1FejMxaaiGzNJ82UgJaTNulTEgD34Zd8Mt3IEBh9H-SOKUWwc5DH9t7vPj6kElWf5O4Hs-55IcoK6Ac5ojyHGaIE1YiDOWpjU0H5ahtUwdl5WdZl-QmTq5qPeev9wooOrTZlQzLmw625khFwIAuRaoUqXWR2hCpDZHaEKmSHNeh2a54Ri6gS_fSqkVhWqpuOlskP4v5RpaI8bLrynCd9WW8Mfo3fraeVqsvg71ea78r16mf-V3ioHp2ezPm91rdaZP1BCanoH7K3whIndU&key=caplus_2012:1432310&title=TWV0YWwgbWF0cml4IGNvbXBvc2l0ZXM6IGFsdW1pbnVt&launchSrc=reflist&p=1)

**Papers published in 2009- August 2011**

1. Simulation of cooling of double-layered splat and its experimental validation using Jackson-Hunt theory , A. Kumar, S. Ghosh and B. K. Dhindaw Metallurgical and Materials Transactions B, vol. 42, no. 2, pp. 269–273, 2011
2. Simulation of cooling of liquid Al–33 wt.% Cu droplet impinging on a metallic substrate and its experimental validation, A. Kumar, S. Ghosh, B.K. Dhindaw, Acta Materialia, Volume 58, Issue 1, January 2010, Pages 122-133,
3. [Influence of Superheat on Microstructure and Mechanical Properties of Ductile Cu47.5Zr47.5Al5 Bulk Metallic Glass-Matrix Composite](http://www.scopus.com/scopus/inward/record.url?eid=2-s2.0-78049361673&partnerID=K84CvKBR&rel=3.0.0&md5=4ff69e403b775020dd164fb13f0e89c4), A. A. Antonysamy,, S Pauly,B. K. Dhindaw, and J. Eckert Journal of Materials Engineering and Performance, pp. 1–10, 2010
4. Melt conditioned, High-Pressure Die Casting of Mg-Zn-Y Alloy, Mingxu Xia, Subhajit Mitra, Brij Dhindaw, Guojun Liu and Zhongyun Fan, Metallurgical and Materials Transactions B, published on line October 2009, Vol. 41B, February 2010, pp 209-213.
5. Structure-Property Relations in Bulk Metallic Cu-Zr-Al Alloys, N. S. Barekar, S. Pauly, R. B. Kumar, U. Kühn, B. K. Dhindaw and J. Eckert, Materials Science and Engineering A Volume: 527   Issue: 21-22   Pages: 5867-5872 Published: 2010
6. S. Tzamtzis, N.S. Barekar, N. Hari Babu, J. Patel, B.K. Dhindaw, Z. Fan:  Processing of advanced Al/SiC particulate metal matrix composites under intensive shearing - A novel Rheo-process,  Composites: Part A, 40 (2009) 144-151.
7. N.S. Barekar, S. Tzamtzis, N. Hari Babu, Z. Fan and B.K. Dhindaw:  Processing of Ultrafine-Size Particulate Metal Matrix Composites by Advanced Shear Technology,  Metallurgical and Materials Transactions A, vol 40A, 691-701 online Feb 09
8. Effect of Intensive Shearing on the Morphology of Primary Silicon and Properties of Hypereutectic Al-Si alloy, N. Barekar, N. Hari Babu, B. K. Dhindaw\* and Z. Fan, Materials Science and Technology   Volume: 26   Issue: 8 Pages: 975-980   Published: 2010
9. Processing of Aluminum-graphite particulate metal matrix composites by advanced shear technology, N. Barekar, S. Tzamtzis, B. K. Dhindaw\* J. Patel, N. Hari Babu, Z. Fan, Journal of Materials Engineering and Performance, Vol. 18(9) December 2009, pp 1230-1240
10. Decarburization as a tool to explore parallels between solid-solid and liquid solid transformations: Fe-C-Mn-Si steels, Brij. K. Dhindaw, Deba Prakash Guru, Gary Purdy, Hatem S Zurob, Transactions of The Indian Institute of Metals, vol. 62, Issues 4-5, August-October 2009, pp 255-260
11. Improvement in silicon morphology and mechanical properties of Al-17Si alloy by melt conditioning shear technology, Barekar, NS; Dhindaw, BK; Fan, Z, International Journal of Cast Metals Research   Volume: 23   Issue: 4  Pages: 225-230   Published: 2010

**List of Published papers till 2008**

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