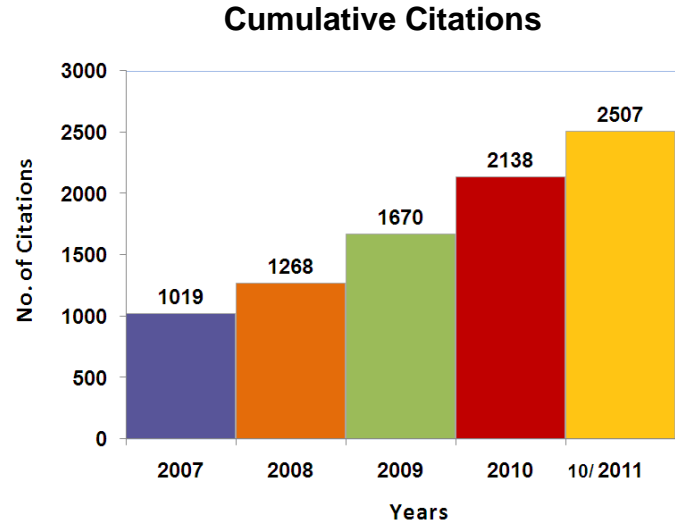
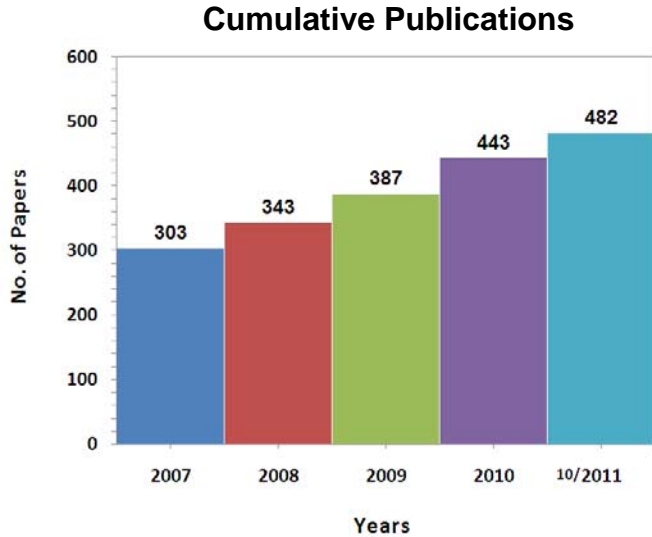


Publications & Citations of

Dr. Baldev Raj

(Year: 2007 – Oct. 2011)



Web of Science Citation Database (Oct.01, 2011)

No. of documents indexed in Web of Science	-	482
Sum of Times Cited	-	2507
No. of articles carrying citations ≥ 11	-	83
Average citations per item	-	5.20
Average citations per year	-	96.46
H-Index	-	23

The 482 selected documents are cited 2507 times by 1418 articles in Web of Science Citation database

Note: Citations for books authored/edited cannot be assessed.

Citations of Dr. Baldev Raj
(Source: Web of Science, 01-10-2011)
H-Index: 22+1

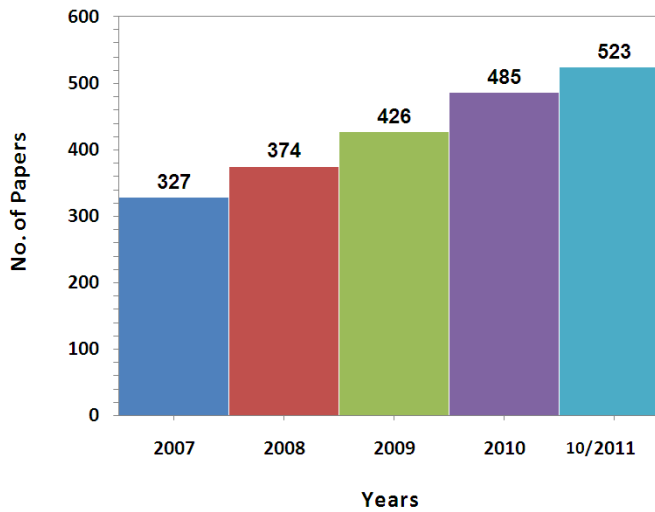
1. Influence of microstructure and alloying elements on corrosion behavior of Ti-13Nb 13Zr alloy
Geetha, M., Kamachi Mudali, U., Gogia, A.K., Asokamani, R., Raj, B.
CORROSION SCIENCE Vol.46 Issue: 4 p.877-892 APR 2004
Times Cited 49 + 5
2. On the influence of tempered microstructures on magnetic Barkhausen emission in ferritic steels
Moorthy V, Vaidyanathan S, Jayakumar T, Raj, B.,
Philosophical Magazine A-Physics of Condensed Matter Structure Defects and Mechanical Properties
Vol.77 Issue: 6 p.1499-1514 JUN 1998
Times Cited: 40
3. Corrosion of bio implants
Mudali UK, Sridhar TM, Raj B
SADHANA-ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES
Vol.28 p.601-637 Part: Part 3-4 Published: JUN-AUG 2003
Times Cited: 39
4. Effect of digestion time and alkali addition rate on physical properties of magnetite nanoparticles
Gnanaprakash G, Philip J, Jayakumar, Raj, B.
JOURNAL OF PHYSICAL CHEMISTRY B Vol. 111(28) P.7978-7986 JUL 19 2007
Times Cited: 37
5. Effect of clustering on the thermal conductivity of nanofluids
Karthikeyan NR, Philip J, Raj B
MATERIALS CHEMISTRY AND PHYSICS Vol. 109 (1) P. 50-55 2008
Times Cited: 35 +1
6. Ultrasonic Velocity-Measurements for Estimation of Grain-Size In Austenitic Stainless-Steel
PALANICHAMY P, JOSEPH A, JAYAKUMAR T, and Raj, B
NDT & E INTERNATIONAL Volume: 28 Issue: 3 Pages: 179-185 JUN 1995
Times Cited: 33
7. On the pitting corrosion resistance of nitrogen alloyed cold worked austenitic stainless steels
Mudali UK, Shankar P, Ningshen S., Dayal, R.K., Khatak, H.S., Raj, B.
Corrosion Science Vol.44(10) 2183-2198 OCT 2002
Times Cited: 33

8. Effect of initial pH and temperature of iron salt solutions on formation of magnetite nanoparticles
Gnanaprakash G, Mahadevan S, Jayakumar T, Kalyanasundaram, P., Philip, J., Raj, B.
Materials Chemistry and Physics Volume: 103 Issue: 1 P.168-175 2007
Times Cited: 31
9. Enhancement of thermal conductivity in magnetite based nanofluid due to chainlike structures
Philip J, Shima PD, Raj B
APPLIED PHYSICS LETTERS Vol.91 (20) Article #: 203108 NOV 12 2007
Times Cited: 29 + 2
10. Nitrogen ion implantation and in vitro corrosion behavior of as-cast Ti-6Al-7Nb alloy
Thair L, Kamachi Mudali, U., Bhuvaneshwaran, N., Nair, KGM., Asokamani, R., Raj, B.
Corrosion Science Vol.44 Issue: 11 p.2439-2457 NOV 2002
Times Cited: 30
11. Detection of Breakaway Oxidation and Spalling in the Oxide Scales Of 21/4cr-1mo Steel using Acoustic-Emission Technique
Khanna AS, Jha BB, Raj B
Oxidation of Metals Vol.23 Issue: 3-4 P.159-176 1985
Times Cited: 29
12. Microstructural characterization of quenched and tempered 0.2% carbon steel using magnetic Barkhausen noise analysis
Moorthy V; Vaidyanathan S; Jayakumar T; Raj, B.
Journal of Magnetism and Magnetic Materials, Vol.171 (1-2) p.179-189 JUL 1997
Times Cited: 29
13. Synthesis of nanocrystalline ceria by thermal decomposition and soft-chemistry methods
Kamruddin M; Ajikumar PK; Nithya R, Tyagi, A.K., Raj, B.
Scripta Materialia, Vol.50 (4) p. 417-422 2004
Times Cited: 29
14. Assessment of microstructures and mechanical behaviour of metallic materials through non-destructive characterisation
Raj B; Moorthy V; Jayakumar T, Bhanu Sankara Rao, K.
International Materials Reviews Vol.48 (5) P.273-325 OCT 2003
Times Cited: 28
15. Confocal laser scanning microscopy: Applications in material science and technology
Tata BVR; Raj B
Bulletin of Materials Science, Vol.21 (4) P.263-278 AUG 1998
Times Cited: 27

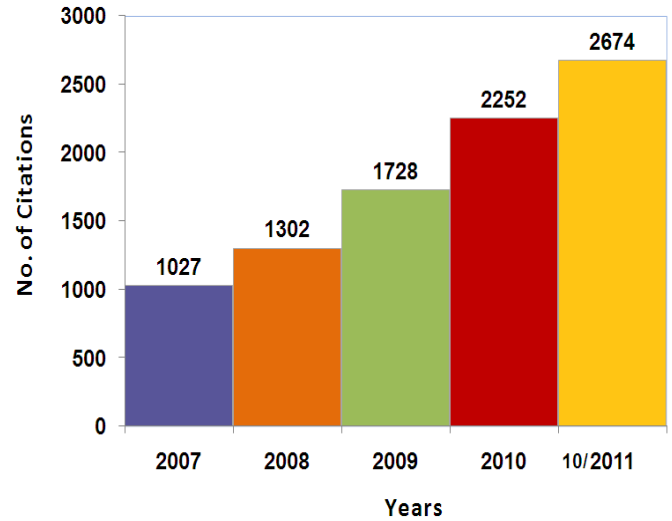
Publications & Citations of Dr. Baldev Raj

(Year: 2007 – Oct. 2011)

Cumulative Publications



Cumulative Citations



Scopus Citation Database (Oct.01, 2011)

No. of documents indexed in Scopus	-	523
Sum of Times Cited	-	2674
No. of articles carrying citations ≥ 11	-	87
Average citations per item	-	5.11
H-Index	-	23

The 523 selected documents are cited 2674 times by 1815 articles in Scopus Citation database

Note: Citations for books authored/edited cannot be assessed.

Citations of Dr. Baldev Raj

(Source: Scopus, 1-10-2011)

H-Index: 23

1. Influence of microstructure and alloying elements on corrosion behavior of Ti-13Nb 13Zr alloy
Geetha, M., Kamachi Mudali, U., Gogia, A.K., Asokamani, R., Raj, B.
CORROSION SCIENCE Vol.46 Issue: 4 p.877-892 APR 2004
Times Cited 52+3
2. On the pitting corrosion resistance of nitrogen alloyed cold worked austenitic stainless steels
Mudali UK, Shankar P, Ningshen S., Dayal, R.K., Khatak, H.S., Raj, B.
CORROSION SCIENCE Vol.44(10) 2183-2198 OCT 2002
Times Cited: 44
3. Corrosion of bio implants
Mudali UK, Sridhar TM, Raj B
Sadhana-Academy Proceedings in Engineering Sciences
Vol.28 p.601-637 Part: Part 3-4 JUN-AUG 2003
Times Cited: 40+3
4. Ultrasonic Velocity-Measurements for Estimation of Grain-Size In Austenitic Stainless-Steel
PALANICHAMY P, JOSEPH A, JAYAKUMAR T, and Raj, B
NDT & E INTERNATIONAL Volume: 28 Issue: 3 Pages: 179-185 JUN 1995
Times Cited: 38 +1
5. Effect of clustering on the thermal conductivity of nanofluids
Karthikeyan NR, Philip J, Raj B
MATERIALS CHEMISTRY AND PHYSICS Vol. 109 (1) P. 50-55 2008
Times Cited: 35 + 2
6. Effect of digestion time and alkali addition rate on physical properties of magnetite nanoparticles
Gnanaprakash, G., Philip, J., Jayakumar, T., Raj, B.
Journal of Physical Chemistry B, 2007, 111 (28), pp. 7978-7986
Times Cited: 37
7. On the influence of tempered microstructures on magnetic Barkhausen emission in ferritic steels
Moorthy, V., Vaidyanathan, S., Jayakumar, T., Raj, B.
Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties 1998, 77 (6), pp. 1499-1514
Times Cited: 37

8. Enhancement of thermal conductivity in magnetite based nanofluid due to chainlike structures Philip, J., Shima, P.D., Raj, B. 2007 Applied Physics Letters 91 (20), art. no. 203108
Times Cited: 36
9. Assessment of microstructures and mechanical behaviour of metallic materials through non-destructive characterisation
Raj B, Moorthy V, Jayakumar T, Bhanu Sankara Rao, K.
INTERNATIONAL MATERIALS REVIEWS Vol.48 (5) p.273-325 OCT 2003
Times Cited: 34 +1
10. Physics and chemistry of photocatalytic titanium dioxide: Visualization of bactericidal activity using atomic force microscopy
Banerjee S., Gopal J., Muraleedharan P., Tyagi A.K., Baldev Raj
Current Science, Vol.90 (10), 2006
Times Cited: 32 + 2
11. Effect of initial pH and temperature of iron salt solutions on formation of magnetite nanoparticles
Gnanaprakash G, Mahadevan S, Jayakumar T, Kalyanasundaram, P., Philip, J., Raj, B.
Materials Chemistry and Physics Volume: 103 Issue: 1 P.168-175 2007
Times Cited: 30 + 2
12. Synthesis of nanocrystalline ceria by thermal decomposition and soft-chemistry methods
Kamruddin M, Ajikumar PK, Nithya R, Tyagi, A.K., Raj, B.
SCRIPTA MATERIALIA Vol.50 Issue: 4 p.417-422 FEB 2004
Times Cited: 30 + 2
13. Nitrogen ion implantation and in vitro corrosion behavior of as-cast Ti-6Al-7Nb alloy
Thair L, Kamachi Mudali, U., Bhuvaneshwaran, N., Nair, KGM., Asokamani, R., Raj, B.
CORROSION SCIENCE Vol.44 Issue: 11 p.2439-2457 NOV 2002
Times Cited: 31
14. Corrosion and microstructural aspects of dissimilar joints of titanium and type 304L stainless steel
Mudali UK, Rao BMA, Shanmugam K, Natarajan, R., Raj, B.
JOURNAL OF NUCLEAR MATERIALS Vol. 321 Issue: 1 p.40-48 SEP 1 2003
Times Cited: 29 + 2
15. Microstructural characterization of quenched and tempered 0.2% carbon steel using magnetic Barkhausen noise analysis
Moorthy V, Vaidyanathan S, Jayakumar T, Raj, B
Journal of Magnetism and Magnetic Materials Vol.171 Issue: 1-2 p.179-189 1997
Times Cited: 28 + 2