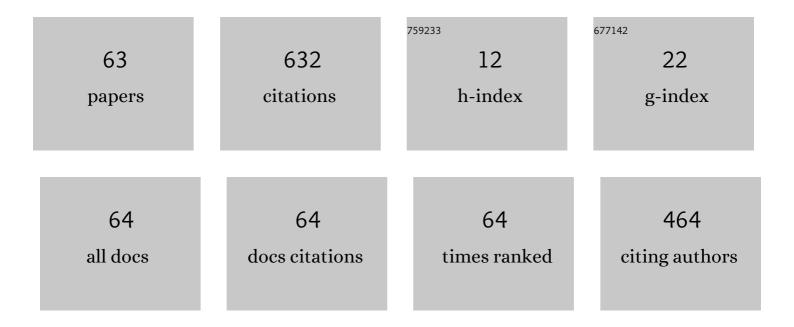
Indranil Chattoraj

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | The effects of cold working on sensitization and intergranular corrosion behavior of AISI 304 stainless steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2003, 34, 2441-2447. | 2.2 | 62 |
| 2 | An investigation of the failure of low pressure steam turbine blades. Engineering Failure Analysis, 1998, 5, 181-193. | 4.0 | 60 |
| 3 | The importance of grain size relative to grain boundary character on the sensitization of metastable austenitic stainless steel. Scripta Materialia, 2007, 57, 185-188. | 5.2 | 58 |
| 4 | Effect of temper on the distribution of pits in AA7075 alloys. Corrosion Science, 2008, 50, 2895-2901. | 6.6 | 42 |
| 5 | Hydrogen entry into pipeline steel under freely corroding conditions in two corroding media. Corrosion Science, 2006, 48, 2676-2688. | 6.6 | 39 |
| 6 | The effect of shot peening on hydrogen absorption by and hydrogen permeation through AISI 4130 steels. Scripta Metallurgica Et Materialia, 1992, 26, 627-632. | 1.0 | 19 |
| 7 | Modification of Sensitization Resistance of AISI 304L Stainless Steel through Changes in Grain Size and Grain Boundary Character Distributions. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2008, 39, 2504-2512. | 2.2 | 19 |
| 8 | Low-Temperature Sensitization Behavior of Base, Heat-Affected Zone, and Weld Pool in AISI 304LN. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 1219-1234. | 2.2 | 19 |
| 9 | Corrosive degradation and failure of vertical furnace wall tubes of a boiler. Engineering Failure Analysis, 1997, 4, 279-286. | 4.0 | 17 |
| 10 | The Effect of Pitting on Fatigue Lives of Peak-Aged and Overaged 7075 Aluminum Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 3297-3307. | 2.2 | 15 |
| 11 | The effect of hydrogen induced cracking on the integrity of steel components. Sadhana - Academy Proceedings in Engineering Sciences, 1995, 20, 199-211. | 1.3 | 14 |
| 12 | The influence of palladium on the resistance of low alloy steels to hydrogen embrittlement. Scripta Metallurgica, 1987, 21, 1369-1373. | 1.2 | 13 |
| 13 | The association of potentiokinetic reactivation and electrochemical pitting tests on a nitrogen bearing 19 Cr-17 Mn steel with its thermal history. Corrosion Science, 1996, 38, 957-969. | 6.6 | 12 |
| 14 | Electrochemical response of AlNiLa amorphous and devitrified alloys. Corrosion Science, 2007, 49, 2486-2496. | 6.6 | 12 |
| 15 | Studies on low-energy nitrogen plasma immersion ion implantation on austenitic stainless steel and Cu-strengthened HSLA-100 steel. Surface and Coatings Technology, 2004, 186, 282-286. | 4.8 | 11 |
| 16 | Stress corrosion cracking (SCC) and hydrogen-assisted cracking in titanium alloys. , 2011, , 381-408. | | 11 |
| 17 | Crystallization and magnetic behaviour of Fe-Nb-Cu-Si-B alloys. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1998, 77, 1681-1691. | 0.6 | 10 |
| 18 | Anodic reactions of amorphous and devitrified Fe–B–Si–Nb–Cu alloys in buffered chloride and fluoride. Corrosion Science, 1999, 41, 1-16. | 6.6 | 10 |

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|----|---|-----|-----------|
| 19 | Structural and soft magnetic properties of Fe73.5Nb3M1Si13.5B9 (M=Cu,Mn,Pt). Journal of Magnetism and Magnetic Materials, 2000, 222, 263-270. | 2.3 | 10 |
| 20 | Effect of quenching rate on the properties of melt-spun FeNbCuSIB ribbons. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 457-461. | 5.6 | 10 |
| 21 | Influence of hydrogen on the magnetic properties of amorphous Feî—,Siî—,B fibres. Journal of Magnetism and Magnetic Materials, 1997, 166, 186-192. | 2.3 | 9 |
| 22 | Effects of Cold Deformation Prior to Sensitization on Intergranular Stress Corrosion Cracking of Stainless Steel. Corrosion, 2005, 61, 907-916. | 1.1 | 9 |
| 23 | Electron transport properties of Co71â^'xFexCr7Si8B14 (x=0, 2, 3.2, 4, 6,8 and 12at%) amorphous alloys during devitrification. Journal of Magnetism and Magnetic Materials, 2007, 308, 65-70. | 2.3 | 9 |
| 24 | Failure analysis of air pre-heater tubes of a petrochemicals plant. Engineering Failure Analysis, 2009, 16, 2371-2381. | 4.0 | 9 |
| 25 | Effect of Fe addition on the crystallization behaviour and Curie temperature of CoCrSiB-based amorphous alloys. Philosophical Magazine, 2005, 85, 1835-1845. | 1.6 | 8 |
| 26 | Reversible magnetic and mechanical response in hydrogenated amorphous Fe73.5Nb3Cu1Si13.5B9 alloys. Journal of Magnetism and Magnetic Materials, 2003, 266, 296-301. | 2.3 | 7 |
| 27 | Hydrogen induced brittle crack growth in Cu-strengthened HSLA-100 steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 339, 136-149. | 5.6 | 7 |
| 28 | Quantification of pitting in two tempers of 7075 aluminium alloy by non-destructive evaluation. Corrosion Science, 2010, 52, 1818-1823. | 6.6 | 7 |
| 29 | Anomalies in hydrogen enhanced fatigue of a high strength steel. International Journal of Fatigue, 2014, 59, 14-22. | 5.7 | 7 |
| 30 | Study of Electrochemical Behavior, Hydrogen Permeation and Diffusion in Pipeline Steel. Materials Science Forum, 0, 1019, 145-156. | 0.3 | 7 |
| 31 | Changes in electrochemical responses of some Fe-B-Si-Cu-Nb alloys before and after devitrification. Scripta Materialia, 1998, 39, 755-761. | 5.2 | 6 |
| 32 | The effect of corrosion on the magnetic properties of papidly solidified Fe-Si-B amorphous fibres. Scripta Metallurgica Et Materialia, 1992, 26, 1013-1017. | 1.0 | 5 |
| 33 | Stress corrosion cracking in an Al-bronze chlorine gas regulating valve. Engineering Failure Analysis, 2000, 7, 229-237. | 4.0 | 5 |
| 34 | Effect of plasma ion implantation on the hydrogen embrittlement of Cu strengthened HSLA-100 steel. Journal of Materials Science, 2003, 38, 2667-2671. | 3.7 | 5 |
| 35 | Fatigue crack growth retardation in an HSLA steel in benign environments. International Journal of Fatigue, 2007, 29, 254-260. | 5.7 | 5 |
| 36 | Electrochemical response of amorphous and devitrified Alâ€Niâ€Laâ€X (X = Ag, Cu) alloys. Materials and Corrosion - Werkstoffe Und Korrosion, 2009, 60, 431-437. | 1.5 | 5 |

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|----|---|-----|-----------|
| 37 | Self-similar and self-affine characteristics of microstructural images of HSLA steel. Materials Science and Technology, 2009, 25, 542-548. | 1.6 | 5 |
| 38 | Low Temperature Sensitization on the Orthogonal Surfaces of Prior Deformed AISI 304LN and Aged at 673ÂK to 873ÂK (400°C to 600°C). Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 986-1003. | 2.2 | 5 |
| 39 | Hydrogen enhanced fatigue crack growth in an HSLA steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 588, 86-96. | 5.6 | 5 |
| 40 | Magnetic properties of hydrogenated amorphous Fe–Si–B fiber. Journal of Applied Physics, 1993, 73, 2443-2446. | 2.5 | 4 |
| 41 | Passivity breakdown due to discontinuous precipitation during ageing of 21Cr-10Mn-5Ni stainless steel. Journal of Materials Science, 1995, 30, 5313-5320. | 3.7 | 4 |
| 42 | Fractal-based quantification of crack paths for determination of effective microstructural length scales and fracture toughness. Scripta Materialia, 2010, 62, 109-112. | 5.2 | 4 |
| 43 | Influence of Hydrogen on Fatigue Crack Growth in 7075 Aluminum Alloy. Journal of Materials Engineering and Performance, 2023, 32, 782-792. | 2.5 | 4 |
| 44 | Crystallization and magnetic properties of rapidly solidified Fe-Nb-M-Si-B (M=Cu, Mn, Pt). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 304-306, 950-953. | 5.6 | 3 |
| 45 | Alteration in hydrogen absorption by and hydrogen permeation through a high-strength low-alloy steel due to plasma source ion implantation of nitrogen. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2004, 35, 1123-1128. | 2.1 | 3 |
| 46 | Effect of Fe addition on the magnetic and giant magneto-impedance behaviour of CoCrSiB rapidly solidified alloys. Journal Physics D: Applied Physics, 2006, 39, 2001-2006. | 2.8 | 3 |
| 47 | The effect of shot peening on calculated hydrogen surface coverage of AISI 4130 steels. Scripta Metallurgica Et Materialia, 1992, 26, 89-94. | 1.0 | 2 |
| 48 | Fractal Analysis to Determine Self-Similar Characteristics in the Microstructure of HSLA Steel. Materials and Manufacturing Processes, 2009, 24, 145-149. | 4.7 | 2 |
| 49 | Pitting Enhanced Fatigue in 7075 Aluminium Alloy. Advanced Materials Research, 0, 117, 43-48. | 0.3 | 2 |
| 50 | Investigations on high temperature corrosion of wire enameling oven. Engineering Failure Analysis, 2011, 18, 1375-1387. | 4.0 | 2 |
| 51 | Stress Corrosion Cracking of Duplex Stainless Steels. Advanced Materials Research, 2013, 794, 552-563. | 0.3 | 2 |
| 52 | Crevice attack of a boiler steam drum. Canadian Metallurgical Quarterly, 1997, 36, 143-148. | 1.2 | 2 |
| 53 | Identification of the corrosion mechanism in a boiler drum by corrosion product analysis. Anti-Corrosion Methods and Materials, 1995, 42, 4-6. | 1.5 | 1 |
| 54 | Effect of structural evolution and surface morphological changes on the electrochemical response of an FeNbAlMnCuSiB alloy. Journal of Materials Science, 2005, 40, 4579-4584. | 3.7 | 1 |

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|----|--|-----|-----------|
| 55 | Study of Giant Magneto-Impedance Behavior in Co–Fe Based Amorphous/Nanocrystalline Materials. Materials and Manufacturing Processes, 2006, 21, 683-686. | 4.7 | 1 |
| 56 | Magnetic characterization of HSLA steel by power-law decay exponents of Barkhausen emission signal. Journal of Magnetism and Magnetic Materials, 2009, 321, 1034-1038. | 2.3 | 1 |
| 57 | Hydrogen interactions with overload in modifying fatigue crack growth rate recovery in an HSLA steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 579, 9-17. | 5.6 | 1 |
| 58 | Intergranular Corrosion Behavior of 304LN Stainless Steel Heat Treated at 623ÂK (350°C). Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 173-187. | 2.2 | 1 |
| 59 | The effect of near-crystallization temperature annealing on the electrochemical behavior of amorphous Fe77.5B15Si7.5 fibres in borate buffer. Scripta Metallurgica Et Materialia, 1993, 29, 611-616. | 1.0 | 0 |
| 60 | The generation of magnetic bistability in annealed Fe-Si-B fibre by hydrogenation. Journal Physics D: Applied Physics, 1999, 32, 541-545. | 2.8 | 0 |
| 61 | Effect of hydrogen on the magnetic behavior of CoFeCrSiB amorphous alloys. Journal of Materials Science, 2006, 41, 5510-5513. | 3.7 | 0 |
| 62 | HYDROGEN EMBRITTLEMENT: RECENT INDIAN RESEARCH AND PERSPECTIVES. Corrosion Reviews, 2009, 27, 181-211. | 2.0 | 0 |
| 63 | Study on Sensitization Susceptibility and Texture of Cold Rolled AISI 304LN Stainless Steel. Materials Science Forum, 0, 702-703, 677-680. | 0.3 | 0 |