# Mf Yan

List of Publications by Year
in descending order

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|---|---|---|---|
| 44 papers | 1,029 citations | 361413 20 h-index | 434195 31 g-index |
| 44 all docs | 44 docs citations | 44 times ranked | 525 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Nitriding behavior and mechanical properties of AerMet100 steel and first-principles calculations of phase interfaces. Journal of Materials Research and Technology, 2022, 19, 46-60. | 5.8 | 3 |
| 2 | DFT investigation of carbon-expanded Î± phase with different alloying element. Vacuum, 2022, 202, 111199. | 3.5 | 1 |
| 3 | Characterization of microstructure and corrosion properties of AZ91D magnesium alloy surface-treated by coating-nitriding. Journal of Materials Research and Technology, 2021, 14, 1559-1568. | 5.8 | 11 |
| 4 | Attractive effects of Re on electroless Ni-P-TiN nanocomposite coating. Applied Surface Science, 2021, 565, 150472. | 6.1 | 8 |
| 5 | Study on a Ni-P-nano TiN composite coating for significantly improving the service life of copper alloy synchronizer rings. Applied Surface Science, 2020, 504, 144116. | 6.1 | 14 |
| 6 | Microstructural changes and mechanical properties of AerMet100 steel surface-treated by plasma nitriding. Surface and Coatings Technology, 2020, 403, 126392. | 4.8 | 5 |
| 7 | Effect of the multiphase layer produced on surface of ZL205A aluminum alloy thin-wall barrel on quenching deformation. Surface and Coatings Technology, 2019, 372, 319-326. | 4.8 | 2 |
| 8 | The mechanism of surface nanocrystallization during plasma nitriding. Applied Surface Science, 2019, 488, 462-467. | 6.1 | 20 |
| 9 | Tribological behavior of diamond-like carbon in-situ formed on Fe3C-containing carburized layer by plasma carburizing. Applied Surface Science, 2019, 479, 482-488. | 6.1 | 22 |
| 10 | Microstructure and mechanical properties from an attractive combination of plasma nitriding and secondary hardening of M50 steel. Applied Surface Science, 2018, 455, 1-7. | 6.1 | 32 |
| 11 | High temperature plasma nitriding to modify Ti coated C17200 Cu surface: Microstructure and tribological properties. Vacuum, 2018, 147, 163-171. | 3.5 | 5 |
| 12 | A novel anti-frictional multiphase layer produced by plasma nitriding of PVD titanium coated ZL205A aluminum alloy. Applied Surface Science, 2018, 431, 32-38. | 6.1 | 19 |
| 13 | Preparation and characterization of ultra-refined expanded martensite Î±â€²N. Surface and Coatings Technology, 2017, 326, 216-223. | 4.8 | 7 |
| 14 | Self-lubricating and anti-corrosion amorphous carbon/Fe3C composite coating on M50NiL steel by low temperature plasma carburizing. Surface and Coatings Technology, 2016, 304, 142-149. | 4.8 | 33 |
| 15 | First-principles investigation of structural, mechanical and electronic properties for Cuâ€“Ti intermetallics. Computational Materials Science, 2016, 123, 70-78. | 3.0 | 98 |
| 16 | One-step plasma-assisted method for functionally graded Fe3O4/DLC coated carburized layer on steel. Diamond and Related Materials, 2016, 70, 18-25. | 3.9 | 15 |
| 17 | Microstructure formation and evolution mechanism of Cu-Ti coating during dual-magnetron sputtering and thermo plasma nitriding. Vacuum, 2016, 134, 25-28. | 3.5 | 14 |
| 18 | Combining thermo-diffusing titanium and plasma nitriding to modify C61900 Cuâ€“Al alloy. Vacuum, 2016, 126, 41-44. | 3.5 | 20 |

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|---|---|---|---|
| 19 | Microstructure and mechanical properties of copperâ€“titaniumâ€“nitrogen multiphase layers produced by a duplex treatment on C17200 copperâ€“beryllium alloy. Materials and Design, 2015, 84, 10-17. | 7.0 | 33 |
| 20 | Surface properties of low alloy steel treated by plasma nitrocarburizing prior to laser quenching process. Optics and Laser Technology, 2015, 67, 57-64. | 4.6 | 36 |
| 21 | Stability and properties of alloyed Îµ-(Fe 1â^' x M x ) 3 N nitrides (M = Cr, Ni, Mo, V, Co, Nb, Mn, Ti and Cu): A first-principles calculations. Journal of Alloys and Compounds, 2014, 615, 854-862. | 5.5 | 23 |
| 22 | Microstructure and mechanical properties of multiphase layer formed during thermo-diffusing of titanium into the surface of C17200 copperâ€“beryllium alloy. Applied Surface Science, 2014, 292, 225-230. | 6.1 | 25 |
| 23 | Laser quenching of plasma nitrided 30CrMnSiA steel. Materials & Design, 2014, 58, 154-160. | 5.1 | 33 |
| 24 | Influence of interstitial distribution on the elastic and electronic properties of phase by first-principles calculations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 270-275. | 2.1 | 2 |
| 25 | Study on depth-related microstructure and wear property of rare earth nitrocarburized layer of M50NiL steel. Applied Surface Science, 2014, 289, 370-377. | 6.1 | 42 |
| 26 | Microstructure and mechanical properties of M50NiL steel plasma nitrocarburized with and without rare earths addition. Materials & Design, 2014, 55, 128-136. | 5.1 | 48 |
| 27 | Optimizing the mechanical properties of M50NiL steel by plasma nitrocarburizing. Applied Surface Science, 2014, 315, 28-35. | 6.1 | 38 |
| 28 | Microstructure and mechanical properties of multiphase layer formed during depositing Ti film followed by plasma nitriding on 2024 aluminum alloy. Applied Surface Science, 2014, 301, 410-417. | 6.1 | 18 |
| 29 | Effect of N distribution on elastic and electronic properties of hexagonal Îµ-Fe6Nx by first-principles calculations. Journal of Magnetism and Magnetic Materials, 2014, 354, 200-204. | 2.3 | 17 |
| 30 | Experimental and theoretical study on interaction between lanthanum and nitrogen during plasma rare earth nitriding. Applied Surface Science, 2013, 287, 381-388. | 6.1 | 29 |
| 31 | Microstructure and mechanical properties of the modified layer obtained by low temperature plasma nitriding of nanocrystallized 18Ni maraging steel. Materials & Design, 2013, 47, 575-580. | 5.1 | 15 |
| 32 | Behaviors and interactions of La atom with other foreign substitutional atoms (Al, Si, Ti, V, Cr, Mn,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Science, 2013, 73, 120-127. | 3.0 | 14 |
| 33 | Grain and grain boundary characters in surface layer of untreated and plasma nitrocarburized 18Ni maraging steel with nanocrystalline structure. Applied Surface Science, 2013, 273, 520-526. | 6.1 | 12 |
| 34 | The electronic structure and properties of Fe6(N1â^'xCx)2 carbonitrides by first-principles calculations. Physica B: Condensed Matter, 2012, 407, 4104-4107. | 2.7 | 4 |
| 35 | Effects of Rare Earth Elements on the Characteristics of Low Temperature Plasma Nitrocarburized Martensitic Stainless Steel. Journal of Materials Science and Technology, 2012, 28, 1046-1052. | 10.7 | 21 |
| 36 | Effects of rare earths addition on the microstructure, wear and corrosion resistances of plasma nitrided 30CrMnSiA steel. Surface and Coatings Technology, 2012, 206, 2363-2370. | 4.8 | 48 |

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|---|---|---|---|
| 37 | Martensitic stainless steel modified by plasma nitrocarburizing at conventional temperature with and without rare earths addition. Surface and Coatings Technology, 2010, 205, 345-349. | 4.8 | 25 |
| 38 | Microstructure and properties of 17-4PH steel plasma nitrocarburized with a carrier gas containing rare earth elements. Materials Characterization, 2010, 61, 19-24. | 4.4 | 25 |
| 39 | Electronic structure and properties of (Fe1â^'xNix)4N (0â‰¤xâ‰¤1.0). Physica B: Condensed Matter, 2010, 405, 2700-2705. | 2.7 | 10 |
| 40 | Improvement of wear and corrosion resistances of 17-4PH stainless steel by plasma nitrocarburizing. Materials & Design, 2010, 31, 2355-2359. | 5.1 | 47 |
| 41 | Microstructure and mechanical properties of 17-4PH steel plasma nitrocarburized with and without rare earths addition. Journal of Materials Processing Technology, 2010, 210, 784-790. | 6.3 | 22 |
| 42 | The microstructure and properties of 17-4PH martensitic precipitation hardening stainless steel modified by plasma nitrocarburizing. Surface and Coatings Technology, 2010, 204, 2251-2256. | 4.8 | 37 |
| 43 | Influence of process time on microstructure and properties of 17-4PH steel plasma nitrocarburized with rare earths addition at low temperature. Applied Surface Science, 2010, 256, 6065-6071. | 6.1 | 39 |
| 44 | The effect of rare earth catalyst on carburizing kinetics in a sealed quench furnace with endothermic atmosphere. Applied Surface Science, 2001, 173, 91-94. | 6.1 | 37 |