

Khaliq Mahmood

List of Publications by Year in descending order

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33
papers

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396
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Influence of ambient gas and its pressure on the laser-induced breakdown spectroscopy and the surface morphology of laser-ablated Cd. Applied Physics A: Materials Science and Processing, 2012, 107, 203-212. | 2.3 | 79 |
| 2 | Effect of ambient gas conditions on laser-induced copper plasma and surface morphology. Physica Scripta, 2012, 85, 015702. | 2.5 | 69 |
| 3 | Effect of dry and wet ambient environment on the pulsed laser ablation of titanium. Applied Surface Science, 2013, 270, 49-57. | 6.1 | 60 |
| 4 | Effect of ambient environment on excimer laser induced micro and nano-structuring of stainless steel. Applied Surface Science, 2012, 261, 101-109. | 6.1 | 37 |
| 5 | Effect of laser irradiance on the surface morphology and laser induced plasma parameters of zinc. Laser and Particle Beams, 2014, 32, 119-128. | 1.0 | 35 |
| 6 | Pulsed laser ablation of Germanium under vacuum and hydrogen environments at various fluences. Applied Surface Science, 2015, 344, 146-158. | 6.1 | 31 |
| 7 | Nanosecond pulsed laser ablation of brass in a dry and liquid-confined environment. Applied Physics A: Materials Science and Processing, 2013, 110, 389-395. | 2.3 | 28 |
| 8 | Morphological and spectroscopic characterization of laser-ablated tungsten at various laser irradiances. Applied Physics A: Materials Science and Processing, 2015, 119, 859-870. | 2.3 | 28 |
| 9 | Optical emission spectroscopy of magnetically confined laser induced vanadium pentoxide (V2O5) plasma. Physics of Plasmas, 2017, 24, 083112. | 1.9 | 23 |
| 10 | EFFECTS OF SUBSTRATE TEMPERATURE ON STRUCTURAL, OPTICAL AND SURFACE MORPHOLOGICAL PROPERTIES OF PULSED LASER DEPOSITED ZnO THIN FILMS. Surface Review and Letters, 2013, 20, 1350032. | 1.1 | 15 |
| 11 | EFFECT OF SUBSTRATE TEMPERATURE ON THE GROWTH OF COPPER OXIDE THIN FILMS DEPOSITED BY PULSED LASER DEPOSITION TECHNIQUE. Surface Review and Letters, 2018, 25, 1850053. | 1.1 | 15 |
| 12 | Surface, structural, electrical and mechanical modifications of pulsed laser deposited ZrN thin films by implantation of MeV carbon ions. Nuclear Instruments & Methods in Physics Research B, 2019, 448, 61-69. | 1.4 | 15 |
| 13 | Nanosecond pulsed laser ablation of Ge investigated by employing photoacoustic deflection technique and SEM analysis. Physica B: Condensed Matter, 2016, 490, 31-41. | 2.7 | 12 |
| 14 | Laser Induced Surface Morphology of Molybdenum Correlated with Breakdown Spectroscopy. Plasma Chemistry and Plasma Processing, 2017, 37, 287-304. | 2.4 | 11 |
| 15 | Femtosecond laser induced periodic surface structures for the enhancement of field emission properties of tungsten. Optical Materials Express, 2019, 9, 3183. | 3.0 | 11 |
| 16 | Spectroscopic and morphological study of laser ablated Titanium. Optics and Spectroscopy (English) Tj ETQq0 0 0 rBT /Overlock 10 Tf | 9.6 | 10 |
| 17 | The role of spatial confinement for improvement of laser-induced Mg plasma parameters and growth of surface features. Applied Physics A: Materials Science and Processing, 2017, 123, 1. | 2.3 | 10 |
| 18 | Fluence-dependent sputtering yield measurement, surface morphology, crater depth, and hardness of laser-irradiated Zr in N_2 and Ne environments. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1945. | 2.1 | 10 |

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|----|---|-----|-----------|
| 19 | Investigation of field emission properties of laser irradiated tungsten. Applied Physics A: Materials Science and Processing, 2018, 124, 1. | 2.3 | 9 |
| 20 | Surface and morphological features of laser-irradiated silicon under vacuum, nitrogen and ethanol. Applied Surface Science, 2015, 357, 2415-2425. | 6.1 | 8 |
| 21 | Surface morphology correlated with sputtering yield measurements of laser-ablated iron. Laser and Particle Beams, 2018, 36, 427-441. | 1.0 | 8 |
| 22 | Laser sputtering of Zr under Ar and O ₂ environments explored by quartz crystal microbalance and SEM analysis. Laser and Particle Beams, 2019, 37, 128-140. | 1.0 | 8 |
| 23 | Investigation of Energy and Density of Laser-Ablated Si and Ge Plasma Ions Along With Surface Modifications. IEEE Transactions on Plasma Science, 2020, 48, 4191-4203. | 1.3 | 8 |
| 24 | CARBON ION IRRADIATION EFFECTS ON PULSED LASER DEPOSITED TITANIUM NITRIDE THIN FILMS. Surface Review and Letters, 2015, 22, 1550020. | 1.1 | 4 |
| 25 | Laser induced surface structuring of Cu for enhancement of field emission properties. Materials Research Express, 2018, 5, 025029. | 1.6 | 4 |
| 26 | Measurement of characteristic parameters and self-generated electric and magnetic fields (SGEMFs) of laser-induced aluminum plasma. Applied Physics B: Lasers and Optics, 2021, 127, 1. | 2.2 | 4 |
| 27 | Surface and Structural Modifications of Tungsten by Laser Irradiation for Enhanced Electrochemical Corrosion Resistance. Journal of Materials Engineering and Performance, 2022, 31, 1904-1913. | 2.5 | 3 |
| 28 | Carbon ion irradiation effects on surface modifications and field emission properties of molybdenum. Applied Physics A: Materials Science and Processing, 2022, 128, . | 2.3 | 3 |
| 29 | Evaluation of electron temperature and electron density of laser-ablated Zr plasma by Langmuir probe characterization and its correlation with surface modifications. Laser and Particle Beams, 2020, 38, 84-93. | 1.0 | 2 |
| 30 | Investigation and correlation between surface modifications and field emission properties of laser-induced silicon plasma ion irradiated stainless steel. Radiation Effects and Defects in Solids, 2022, 177, 706-726. | 1.2 | 2 |
| 31 | Investigation of number density, temperature, and kinetic energy of nanosecond laser-induced Zr plasma species for self-generated electric and magnetic fields in axial expansion of plume. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 1986. | 2.1 | 1 |
| 32 | Langmuir Probe Characterization of Spatially Confined Laser-Ablated Iron Plasma Along With Surface Modifications. IEEE Transactions on Plasma Science, 2022, 50, 1206-1217. | 1.3 | 0 |
| 33 | Langmuir probe characterization of spatially confined laser-induced Bismuth plasma. Optik, 2022, 266, 169566. | 2.9 | 0 |