

John M Walls

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132
papers

2,304
citations

26
h-index

41
g-index

156
ext. papers

2,732
ext. citations

4.1
avg, IF

4.87
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 132 | An XPS study of ion-induced compositional changes with group II and group IV compounds. <i>Applications of Surface Science</i> , 1983 , 15, 224-237 | | 168 |
| 131 | Polycrystalline CdSeTe/CdTe Absorber Cells With 28 mA/cm ² Short-Circuit Current. <i>IEEE Journal of Photovoltaics</i> , 2018 , 8, 310-314 | 3.7 | 100 |
| 130 | The development of a general three-dimensional surface under ion bombardment. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1980 , 42, 235-248 | | 90 |
| 129 | Polycrystalline CdTe photovoltaics with efficiency over 18% through improved absorber passivation and current collection. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 176, 9-18 | 6.4 | 86 |
| 128 | Understanding the role of selenium in defect passivation for highly efficient selenium-alloyed cadmium telluride solar cells. <i>Nature Energy</i> , 2019 , 4, 504-511 | 62.3 | 80 |
| 127 | CompositionDepth profiling and interface analysis of surface coatings using ball cratering and the scanning auger microprobe. <i>Surface and Interface Analysis</i> , 1979 , 1, 204-210 | 1.5 | 71 |
| 126 | Scalable Deposition of High-Efficiency Perovskite Solar Cells by Spray-Coating. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1853-1857 | 6.1 | 59 |
| 125 | The structural properties of CdS deposited by chemical bath deposition and pulsed direct current magnetron sputtering. <i>Thin Solid Films</i> , 2015 , 582, 323-327 | 2.2 | 56 |
| 124 | The Effect of Cadmium Chloride Treatment on Close-Spaced Sublimated Cadmium Telluride Thin-Film Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2013 , 3, 1361-1366 | 3.7 | 52 |
| 123 | The roles of ZnTe buffer layers on CdTe solar cell performance. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 147, 203-210 | 6.4 | 51 |
| 122 | Electrodeposition of CdTe thin films using nitrate precursor for applications in solar cells. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 3119-3128 | 2.1 | 48 |
| 121 | Studies of the composition, ion-induced reduction and preferential sputtering of anodic oxide films on Hg _{0.8} Cd _{0.2} Te by XPS. <i>Surface Science</i> , 1983 , 135, 225-242 | 1.8 | 48 |
| 120 | Surface morphology of Si(100), GaAs(100) and InP(100) following O ₂ ⁺ and Cs ⁺ ion bombardment. <i>Vacuum</i> , 1984 , 34, 145-151 | 3.7 | 47 |
| 119 | The erosion of amorphous and crystalline surfaces by ion bombardment. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1981 , 44, 879-893 | | 47 |
| 118 | Improved sputter-depth profiles using two ion guns. <i>Applications of Surface Science</i> , 1980 , 5, 103-106 | | 46 |
| 117 | Multilayer Broadband Antireflective Coatings for More Efficient Thin Film CdTe Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2014 , 4, 452-456 | 3.7 | 44 |
| 116 | Ion trajectories in the field-ion microscope. <i>Journal Physics D: Applied Physics</i> , 1978 , 11, 409-419 | 3 | 44 |

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|-----|---|-----|----|
| 115 | Effect of CdCl ₂ passivation treatment on microstructure and performance of CdSeTe/CdTe thin-film photovoltaic devices. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 186, 259-265 | 6.4 | 41 |
| 114 | An XPS study of ion-induced dissociation on metal carbonate surfaces. <i>Vacuum</i> , 1981 , 31, 513-517 | 3.7 | 40 |
| 113 | Identification of critical stacking faults in thin-film CdTe solar cells. <i>Applied Physics Letters</i> , 2014 , 105, 062104 | 3.4 | 36 |
| 112 | Thin film thickness measurements using Scanning White Light Interferometry. <i>Thin Solid Films</i> , 2014 , 550, 10-16 | 2.2 | 35 |
| 111 | Development of ZnTe as a back contact material for thin film cadmium telluride solar cells. <i>Vacuum</i> , 2017 , 139, 159-163 | 3.7 | 32 |
| 110 | The development of surface topography during depth profiling in auger electron spectroscopy. <i>Surface Science</i> , 1979 , 80, 557-565 | 1.8 | 29 |
| 109 | The activation of thin film CdTe solar cells using alternative chlorine containing compounds. <i>Thin Solid Films</i> , 2015 , 582, 115-119 | 2.2 | 26 |
| 108 | Solution processing of CuIn(S,Se) ₂ and Cu(In,Ga)(S,Se) ₂ thin film solar cells using metal chalcogenide precursors. <i>Thin Solid Films</i> , 2017 , 633, 76-80 | 2.2 | 26 |
| 107 | Hydrazine-Free Solution-Deposited CuIn(S,Se) ₂ Solar Cells by Spray Deposition of Metal Chalcogenides. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 11893-7 | 9.5 | 26 |
| 106 | High rate deposition of thin film cadmium sulphide by pulsed direct current magnetron sputtering. <i>Thin Solid Films</i> , 2015 , 574, 43-51 | 2.2 | 25 |
| 105 | Analysis and optimisation of the glass/TCO/MZO stack for thin film CdTe solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2018 , 187, 15-22 | 6.4 | 24 |
| 104 | The preparation of field electron/field-ion emitters by ion etching. <i>Vacuum</i> , 1974 , 24, 475-479 | 3.7 | 24 |
| 103 | Solution-processed CuIn(S,Se) ₂ absorber layers for application in thin film solar cells. <i>Thin Solid Films</i> , 2015 , 582, 31-34 | 2.2 | 22 |
| 102 | Deterministic models of ion erosion, reflection and redeposition. <i>Vacuum</i> , 1984 , 34, 175-180 | 3.7 | 22 |
| 101 | The projection geometry of the field-ion image. <i>Surface Science</i> , 1978 , 75, 129-140 | 1.8 | 22 |
| 100 | Evolution of oxygenated cadmium sulfide (CdS:O) during high-temperature CdTe solar cell fabrication. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 157, 276-285 | 6.4 | 21 |
| 99 | Magnification in the field-ion microscope. <i>Journal Physics D: Applied Physics</i> , 1979 , 12, 657-667 | 3 | 21 |
| 98 | Modeling evaporation, ion-beam assist, and magnetron sputtering of thin metal films over realistic time scales. <i>Physical Review B</i> , 2012 , 86, | 3.3 | 20 |

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|----|--|-----|----|
| 97 | Field-ion microscope observations of helium ion bombardment damage in tungsten. <i>Surface Science</i> , 1976 , 61, 419-434 | 1.8 | 20 |
| 96 | Comparison of wear behaviour of single- and multilayer coated carbide cutting tools. <i>Metals Technology</i> , 1980 , 7, 293-299 | | 19 |
| 95 | The performance and durability of single-layer sol-gel anti-reflection coatings applied to solar module cover glass. <i>Surface and Coatings Technology</i> , 2019 , 358, 76-83 | 4.4 | 18 |
| 94 | Modelling the growth of ZnO thin films by PVD methods and the effects of post-annealing. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 135002 | 1.8 | 17 |
| 93 | The effect of temperature on resistive ZnO layers and the performance of thin film CdTe solar cells. <i>Thin Solid Films</i> , 2017 , 633, 92-96 | 2.2 | 17 |
| 92 | The application of taper-sectioning techniques for depth profiling using Auger electron spectroscopy. <i>Applications of Surface Science</i> , 1983 , 15, 93-107 | | 17 |
| 91 | The development of surface shape during sputter-depth profiling in Auger electron spectroscopy. <i>Surface and Interface Analysis</i> , 1980 , 2, 115-119 | 1.5 | 17 |
| 90 | Pinhole free thin film CdS deposited by chemical bath using a substrate reactive plasma treatment. <i>Journal of Renewable and Sustainable Energy</i> , 2014 , 6, 011202 | 2.5 | 16 |
| 89 | The structure and topographical modification of surfaces during depth profiling. <i>Thin Solid Films</i> , 1979 , 57, 201-207 | 2.2 | 16 |
| 88 | The development of surface topography using two ion beams. <i>Journal of Materials Science</i> , 1982 , 17, 1689-1699 | 4.3 | 16 |
| 87 | Atmospheric-pressure plasma surface activation for solution processed photovoltaic devices. <i>Solar Energy</i> , 2017 , 146, 287-297 | 6.8 | 15 |
| 86 | Measurement of thin film interfacial surface roughness by coherence scanning interferometry. <i>Journal of Applied Physics</i> , 2017 , 121, 105303 | 2.5 | 15 |
| 85 | Surface morphology during ion etching The influence of redeposition. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1983 , 47, 453-481 | | 15 |
| 84 | Deposition and application of a MoS ₂ back contact diffusion barrier yielding a 12.0% efficiency solution-processed CIGS solar cell using an amine-thiol solvent system. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 7042-7052 | 13 | 14 |
| 83 | High quality aluminium doped zinc oxide target synthesis from nanoparticulate powder and characterisation of sputtered thin films. <i>Thin Solid Films</i> , 2014 , 566, 108-114 | 2.2 | 14 |
| 82 | A comparison of vacuum-evaporated and ion-plated thin films using Auger electron spectroscopy. <i>Thin Solid Films</i> , 1978 , 54, 303-308 | 2.2 | 14 |
| 81 | Structural and chemical evolution of the CdS:O window layer during individual CdTe solar cell processing steps. <i>Solar Energy</i> , 2018 , 159, 940-946 | 6.8 | 14 |
| 80 | Observations of sputtering damage using the field-ion microscope. <i>Vacuum</i> , 1974 , 24, 471-474 | 3.7 | 13 |

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| 79 | Summary Abstract: Surface topography of electronic materials following oxygen and cesium ion bombardment. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1983 , 1, 621-622 | 2.9 | 12 |
| 78 | A combined fim, aes and LEED study of the structure and composition of ion bombarded tungsten surfaces. <i>Surface Science</i> , 1975 , 50, 360-378 | 1.8 | 12 |
| 77 | Degradation of Mg-doped zinc oxide buffer layers in thin film CdTe solar cells. <i>Thin Solid Films</i> , 2019 , 691, 137556 | 2.2 | 11 |
| 76 | Quantitative secondary neutral mass spectroscopy of thin films. <i>Thin Solid Films</i> , 1991 , 200, 293-300 | 2.2 | 11 |
| 75 | The shape of field-ion emitters. <i>Journal Physics D: Applied Physics</i> , 1979 , 12, 1589-1595 | 3 | 11 |
| 74 | Surface morphology during ion etching The influence of redeposition. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1983 , 47, 453-481 | | 11 |
| 73 | CdCl ₂ passivation of polycrystalline CdMgTe and CdZnTe absorbers for tandem photovoltaic cells. <i>Journal of Applied Physics</i> , 2018 , 123, 203101 | 2.5 | 11 |
| 72 | Testing the Durability of Anti-Soiling Coatings for Solar Cover Glass by Outdoor Exposure in Denmark. <i>Energies</i> , 2020 , 13, 299 | 3.1 | 10 |
| 71 | Sample rocking and rotation in ion beam etching. <i>Journal of Materials Science</i> , 1986 , 21, 123-130 | 4.3 | 10 |
| 70 | The application of surface analytical techniques to thin films and surface coatings. <i>Thin Solid Films</i> , 1981 , 80, 213-220 | 2.2 | 10 |
| 69 | Enhancement of photovoltaic efficiency in CdSe Te (where 0 < x < 1): insights from density functional theory. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 125702 | 1.8 | 10 |
| 68 | The effect of a post-activation annealing treatment on thin film cdte device performance 2015 , | | 9 |
| 67 | High Mobility Titanium-doped Indium Oxide for Use in Tandem Solar Cells Deposited via Pulsed DC Magnetron Sputtering. <i>Energy Procedia</i> , 2014 , 60, 148-155 | 2.3 | 9 |
| 66 | Ring counting in field-ion micrographs. <i>Journal of Microscopy</i> , 1978 , 113, 291-299 | 1.9 | 9 |
| 65 | Effect of the cadmium chloride treatment on RF sputtered Cd _{0.6} Zn _{0.4} Te films for application in multijunction solar cells. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016 , 34, 051202 | 2.9 | 9 |
| 64 | Cadmium Chloride Assisted Re-Crystallisation of CdTe: The Effect on the CdS Window Layer. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1738, 7 | | 8 |
| 63 | High-Efficiency Nanoparticle Solution-Processed Cu(In,Ga)(S,Se) ₂ Solar Cells. <i>IEEE Journal of Photovoltaics</i> , 2018 , 8, 288-292 | 3.7 | 8 |
| 62 | 3D Distributions of Chlorine and Sulphur Impurities in a Thin-Film Cadmium Telluride Solar Cell. <i>MRS Advances</i> , 2018 , 3, 3287-3292 | 0.7 | 8 |

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| 61 | Optical optimization of high resistance transparent layers in thin film cadmium telluride solar cells. <i>Vacuum</i> , 2017 , 139, 196-201 | 3.7 | 7 |
| 60 | Cupric Oxide-based p-type Transparent Conductors. <i>Energy Procedia</i> , 2014 , 60, 129-134 | 2.3 | 7 |
| 59 | Inkjet and laser hybrid processing for series interconnection of thin film photovoltaics. <i>Materials Research Innovations</i> , 2014 , 18, 509-514 | 1.9 | 7 |
| 58 | A moiré interpretation of field-ion microscopy. <i>Philosophical Magazine and Journal</i> , 1973 , 27, 915-927 | | 7 |
| 57 | Refractive index determination by coherence scanning interferometry. <i>Applied Optics</i> , 2016 , 55, 4253-60 | 0.2 | 7 |
| 56 | Artificial linear brush abrasion of coatings for photovoltaic module first-surfaces. <i>Solar Energy Materials and Solar Cells</i> , 2021 , 219, 110757 | 6.4 | 7 |
| 55 | Room temperature surface passivation of silicon for screen printed c-Si solar cells by HiTUS reactive sputter deposition. <i>Applied Surface Science</i> , 2014 , 301, 51-55 | 6.7 | 6 |
| 54 | An XPS study of the angular dependence of preferential sputtering and ion-induced reduction in lead oxide-containing glasses. <i>Vacuum</i> , 1984 , 34, 659-662 | 3.7 | 6 |
| 53 | Degradation of Hydrophobic, Anti-Soiling Coatings for Solar Module Cover Glass. <i>Energies</i> , 2020 , 13, 3811 | 1.1 | 6 |
| 52 | Optical Optimization of Perovskite Solar Cell Structure for Maximum Current Collection. <i>Energy Procedia</i> , 2016 , 102, 11-18 | 2.3 | 6 |
| 51 | Sodium doping of solution-processed amine-thiol based CIGS solar cells by thermal evaporation of NaCl. <i>Progress in Photovoltaics: Research and Applications</i> , 2021 , 29, 546-557 | 6.8 | 6 |
| 50 | The development of thin film metrology by coherence scanning interferometry 2016 , | | 5 |
| 49 | Magnesium-doped Zinc Oxide as a High Resistance Transparent Layer for thin film CdS/CdTe solar cells 2017 , | | 5 |
| 48 | A tunable amorphous p-type ternary oxide system: The highly mismatched alloy of copper tin oxide. <i>Journal of Applied Physics</i> , 2015 , 118, 105702 | 2.5 | 5 |
| 47 | The effect of cadmium chloride treatment on close spaced sublimated cadmium telluride thin film solar cells 2012 , | | 5 |
| 46 | Closed field magnetron sputtering: new generation sputtering process for optical coatings 2008 , | | 5 |
| 45 | Sputter-depth profiling in AES: Dependence of depth resolution on electron and ion beam geometry. <i>Surface and Interface Analysis</i> , 1983 , 5, 71-76 | 1.5 | 5 |
| 44 | The depth resolution of composition-depth profiles obtained by ball-cratering and Auger electron spectroscopy. <i>Vacuum</i> , 1981 , 31, 625-629 | 3.7 | 5 |

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| 43 | A specimen temperature controller for field emission and field-ion microscopy. <i>Journal of Physics E: Scientific Instruments</i> , 1976 , 9, 96-97 | | 5 |
| 42 | High rate deposition of thin film CdTe solar cells by pulsed dc magnetron sputtering. <i>MRS Advances</i> , 2016 , 1, 917-922 | 0.7 | 5 |
| 41 | Water based spray pyrolysis of metal-oxide solutions for Cu ₂ ZnSn(S,Se) ₄ solar cells using low toxicity amine/thiol complexants. <i>Thin Solid Films</i> , 2019 , 669, 588-594 | 2.2 | 5 |
| 40 | An innovative approach for fabrication of Cu ₂ ZnSnSe ₄ absorber layers using solutions of elemental metal powders. <i>Thin Solid Films</i> , 2017 , 633, 151-155 | 2.2 | 4 |
| 39 | Structural and chemical characterization of the back contact region in high efficiency CdTe solar cells 2015 , | | 4 |
| 38 | Deposition of cupric oxide thin films by spin coating. <i>Materials Research Innovations</i> , 2014 , 18, 95-98 | 1.9 | 4 |
| 37 | Cadmium Chloride Assisted Re-Crystallization of CdTe: The Effect of Varying the Annealing Time. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1638, 1 | | 4 |
| 36 | Characterization of Thin Film CdTe photovoltaic materials deposited by high plasma density magnetron sputtering. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1323, 145 | | 4 |
| 35 | Modeling evaporation, ion-beam assist, and magnetron sputtering of TiO ₂ thin films over realistic timescales. <i>Journal of Materials Research</i> , 2012 , 27, 799-805 | 2.5 | 4 |
| 34 | The optimum ion species for sputter-cleaning or ion profiling tungsten surfaces. <i>Surface Technology</i> , 1976 , 4, 255-268 | | 4 |
| 33 | The depth of sputtering damage in tungsten by field-ion microscopy. <i>Radiation Effects</i> , 1979 , 45, 111-118 | | 4 |
| 32 | Zone plates and field ion microscopy. <i>Applied Physics Letters</i> , 1973 , 23, 161-163 | 3.4 | 4 |
| 31 | Understanding the Copassivation Effect of Cl and Se for CdTe Grain Boundaries. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 35086-35096 | 9.5 | 4 |
| 30 | Effect of varying deposition and substrate temperature on sublimated CdTe thin-film photovoltaics 2016 , | | 4 |
| 29 | Chlorine activated stacking fault removal mechanism in thin film CdTe solar cells: the missing piece. <i>Nature Communications</i> , 2021 , 12, 4938 | 17.4 | 4 |
| 28 | High temperature stability of broadband Anti-Reflection coatings on soda lime glass for solar modules 2015 , | | 3 |
| 27 | 2013 , | | 3 |
| 26 | Modeling the Sputter Deposition of Thin Film Photovoltaics using Long Time Scale Dynamics Techniques. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1327, 80401 | | 3 |

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|----|--|-----|---|
| 25 | Optimisation of the CZTSe thin film composition obtained by a sequential electrodeposition process. <i>Surface Engineering</i> , 2019 , 35, 854-860 | 2.6 | 2 |
| 24 | Cadmium chloride assisted re-crystallization of CdTe: The effect of the annealing temperature 2013 , | | 2 |
| 23 | Comparison of DC and RF sputtered aluminium-doped zinc oxide for photovoltaic applications 2015 , | | 2 |
| 22 | Internal strain analysis of CdTe thin films deposited by pulsed DC magnetron sputtering 2015 , | | 2 |
| 21 | Aluminium-doped zinc oxide deposited by ultrasonic spray pyrolysis for thin film solar cell applications 2014 , | | 2 |
| 20 | Deposition of multilayer optical coatings using closed-field magnetron sputtering 2006 , | | 2 |
| 19 | Optical coatings and thin films for display technologies using closed-field magnetron sputtering 2004 , | | 2 |
| 18 | Field-ion Microscope Observations of Sputtered Tungsten Surfaces. <i>Japanese Journal of Applied Physics</i> , 1974 , 13, 355 | 1.4 | 2 |
| 17 | Chlorine passivation of grain boundaries in cadmium telluride solar cells. <i>Physical Review Materials</i> , 2021 , 5, | 3.2 | 2 |
| 16 | Characterization of contacts produced using a laser ablation/inkjet one step interconnect process for thin film photovoltaics 2013 , | | 1 |
| 15 | Quantitative analysis of field-ion micrographs using moiré techniques. <i>Surface Science</i> , 1977 , 67, 299-316 | 1.8 | 1 |
| 14 | Understanding the Role of CdTe in Polycrystalline CdSe x Te 1/x /CdTe-Graded Bilayer Photovoltaic Devices. <i>Solar Rrl</i> ,2100523 | 7.1 | 1 |
| 13 | The microstructure of thin film CdTe absorber layers deposited by pulsed dc magnetron sputtering 2016 , | | 1 |
| 12 | THE EFFECT OF ANNEALING PRESSURE AND TIME ON THE CRYSTALLINITY OF CZTSe. <i>Surface Review and Letters</i> , 2019 , 26, 1850151 | 1.1 | 1 |
| 11 | 2018 , | | 1 |
| 10 | Advanced co-sublimation hardware for deposition of graded ternary alloys in thin-film applications 2018 , | | 1 |
| 9 | Defect Tolerance in as-deposited Selenium-alloyed Cadmium Telluride Solar Cells 2018 , | | 1 |
| 8 | Large Area 3D Elemental Mapping of a MgZnO/CdTe Solar Cell with Correlative EBSD Measurements 2018 , | | 1 |

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| 7 | CdS barrier to minimize Zn loss during CdCl ₂ treatment of Cd-Zn-Te absorbers. <i>Solar Energy</i> , 2018 , 173, 1181-1188 | 6.8 | 1 |
| 6 | Selenium passivates grain boundaries in alloyed CdTe solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2022 , 238, 111595 | 6.4 | 0 |
| 5 | Characterization of Sub-Bandgap Plasmon Excitations in Transparent Conducting Oxides with Electron Energy-Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , 2019 , 25, 600-601 | 0.5 | |
| 4 | Characterization of Sub-Bandgap Energy States in CuIn _x Ga(1-x)Se ₂ and Transparent Conducting Oxides with Electron Energy-Loss Spectroscopy. <i>Microscopy and Microanalysis</i> , 2018 , 24, 456-457 | 0.5 | |
| 3 | Cupric Oxide Thin Films for Photovoltaic Applications. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1538, 185-190 | | |
| 2 | Surface analytical techniques: their developing role in the characterisation of surfaces, thin films and surface coatings. <i>Transactions of the Institute of Metal Finishing</i> , 1984 , 62, 163-168 | 1.3 | |
| 1 | MOCVD of II-VI HRT/Emitters for Voc Improvements to CdTe Solar Cells. <i>Coatings</i> , 2022 , 12, 261 | 2.9 | |