

# Mauritius C M Van De Sanden

## List of Publications by Year in descending order

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469  
papers

19,894  
citations

12303

69  
h-index

18075

120  
g-index

478  
all docs

478  
docs citations

478  
times ranked

13295  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | The 2017 Plasma Roadmap: Low temperature plasma science and technology. Journal Physics D: Applied Physics, 2017, 50, 323001.  | 1.3 | 710       |
| 2  | Plasma-Assisted Atomic Layer Deposition: Basics, Opportunities, and Challenges. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2011, 29, .                                      | 0.9 | 678       |
| 3  | Ultralow surface recombination of c-Si substrates passivated by plasma-assisted atomic layer deposited Al <sub>2</sub> O <sub>3</sub> . Applied Physics Letters, 2006, 89, 042112.                       | 1.5 | 646       |
| 4  | On the c-Si surface passivation mechanism by the negative-charge-dielectric Al <sub>2</sub> O <sub>3</sub> . Journal of Applied Physics, 2008, 104, .  | 1.1 | 479       |
| 5  | Silicon surface passivation by atomic layer deposited Al <sub>2</sub> O <sub>3</sub> . Journal of Applied Physics, 2008, 104, .  | 1.1 | 415       |
| 6  | Surface passivation of high-efficiency silicon solar cells by atomic-layer-deposited Al <sub>2</sub> O <sub>3</sub> . Progress in Photovoltaics: Research and Applications, 2008, 16, 461-466.           | 4.4 | 414       |
| 7  | Excellent passivation of highly doped p-type Si surfaces by the negative-charge-dielectric Al <sub>2</sub> O <sub>3</sub> . Applied Physics Letters, 2007, 91, .   | 1.5 | 370       |
| 8  | Optical constants of graphene measured by spectroscopic ellipsometry. Applied Physics Letters, 2010, 97, .   | 1.5 | 348       |
| 9  | Determining the material structure of microcrystalline silicon from Raman spectra. Journal of Applied Physics, 2003, 94, 3582-3588.  | 1.1 | 325       |
| 10 | High efficiency n-type Si solar cells on Al <sub>2</sub> O <sub>3</sub> -passivated boron emitters. Applied Physics Letters, 2008, 92, .   | 1.5 | 316       |
| 11 | <i>In situ</i> spectroscopic ellipsometry as a versatile tool for studying atomic layer deposition. Journal Physics D: Applied Physics, 2009, 42, 073001.  | 1.3 | 249       |
| 12 | Vacancies and voids in hydrogenated amorphous silicon. Applied Physics Letters, 2003, 82, 1547-1549.   | 1.5 | 246       |
| 13 | Plasma-assisted atomic layer deposition of Al <sub>2</sub> O <sub>3</sub> moisture permeation barriers on polymers. Applied Physics Letters, 2006, 89, 081915.   | 1.5 | 244       |
| 14 | Plasma and Thermal ALD of Al <sub>2</sub> O <sub>3</sub> in a Commercial 200-mm ALD Reactor. Journal of the Electrochemical Society, 2007, 154, G165.  | 1.3 | 237       |
| 15 | Influence of the Deposition Temperature on the c-Si Surface Passivation by Al <sub>2</sub> O <sub>3</sub> Films Synthesized by ALD and PECVD. Electrochemical and Solid-State Letters, 2010, 13, H76.    | 2.2 | 198       |
| 16 | Waveguide Nanowire Superconducting Single-Photon Detectors Fabricated on GaAs and the Study of Their Optical Properties. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 1-10.         | 1.9 | 188       |
| 17 | Silicon surface passivation by ultrathin Al <sub>2</sub> O <sub>3</sub> films synthesized by thermal and plasma atomic layer deposition. Physica Status Solidi - Rapid Research Letters, 2010, 4, 10-12. | 1.2 | 185       |
| 18 | Hydrogen induced passivation of Si interfaces by Al <sub>2</sub> O <sub>3</sub> films and SiO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> stacks. Applied Physics Letters, 2010, 97, .                  | 1.5 | 168       |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Conformality of Plasma-Assisted ALD: Physical Processes and Modeling. Journal of the Electrochemical Society, 2010, 157, G241.   | 1.3 | 157       |
| 20 | Plasma-driven dissociation of CO <sub>2</sub> for fuel synthesis. Plasma Processes and Polymers, 2017, 14, 1600126.  | 1.6 | 152       |
| 21 | Low Temperature Plasma-Enhanced Atomic Layer Deposition of Metal Oxide Thin Films. Journal of the Electrochemical Society, 2010, 157, P66.   | 1.3 | 151       |
| 22 | Influence of the Oxidant on the Chemical and Field-Effect Passivation of Si by ALD Al <sub>2</sub> O <sub>3</sub> . Electrochemical and Solid-State Letters, 2011, 14, H1.   | 2.2 | 151       |
| 23 | Controlling the fixed charge and passivation properties of Si(100)/Al <sub>2</sub> O <sub>3</sub> interfaces using ultrathin SiO <sub>2</sub> interlayers synthesized by atomic layer deposition. Journal of Applied Physics, 2011, 110, . | 1.1 | 150       |
| 24 | Taming microwave plasma to beat thermodynamics in CO <sub>2</sub> dissociation. Faraday Discussions, 2015, 183, 233-248.   | 1.6 | 150       |
| 25 | Stability of Al <sub>2</sub> O <sub>3</sub> and Al <sub>2</sub> O <sub>3</sub> /a-SiNx:H stacks for surface passivation of crystalline silicon. Journal of Applied Physics, 2009, 106, .   | 1.1 | 145       |
| 26 | <i>In Situ</i> Observation of Nanoparticle Exsolution from Perovskite Oxides: From Atomic Scale Mechanistic Insight to Nanostructure Tailoring. ACS Nano, 2019, 13, 12996-13005.   | 7.3 | 144       |
| 27 | The 2022 Plasma Roadmap: low temperature plasma science and technology. Journal Physics D: Applied Physics, 2022, 55, 373001.  | 1.3 | 139       |
| 28 | Thermodynamic generalization of the Saha equation for a two-temperature plasma. Physical Review A, 1989, 40, 5273-5276.  | 1.0 | 138       |
| 29 | Influence of annealing and Al <sub>2</sub> O <sub>3</sub> properties on the hydrogen-induced passivation of the Si/SiO <sub>2</sub> interface. Journal of Applied Physics, 2012, 111, .  | 1.1 | 133       |
| 30 | Negative charge and charging dynamics in Al <sub>2</sub> O <sub>3</sub> films on Si characterized by second-harmonic generation. Journal of Applied Physics, 2008, 104, .  | 1.1 | 131       |
| 31 | $\text{Si} + \text{H} \rightarrow \text{SiH}$ stretching frequency to the nanostructural   | 1.1 | 123       |
| 32 | Surface chemistry of plasma-assisted atomic layer deposition of Al <sub>2</sub> O <sub>3</sub> studied by infrared spectroscopy. Applied Physics Letters, 2008, 92, .  | 1.5 | 117       |
| 33 | Role of field-effect on c-Si surface passivation by ultrathin (≈20 nm) atomic layer deposited Al <sub>2</sub> O <sub>3</sub> . Applied Physics Letters, 2010, 96, .  | 1.5 | 117       |
| 34 | A combined Thomson-Rayleigh scattering diagnostic using an intensified photodiode array. Review of Scientific Instruments, 1992, 63, 3369-3377.  | 0.6 | 113       |
| 35 | Plasma chemistry aspects of a-Si:H deposition using an expanding thermal plasma. Journal of Applied Physics, 1998, 84, 2426-2435.  | 1.1 | 111       |
| 36 | Surface reactions during atomic layer deposition of Pt derived from gas phase infrared spectroscopy. Applied Physics Letters, 2009, 95, .  | 1.5 | 111       |

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|----|--|-----|-----------|
| 37 | Atomic layer deposition for nanostructured Li-ion batteries. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, .   | 0.9 | 111       |
| 38 | Deposition of TiN and HfO <sub>2</sub> in a commercial 200mm remote plasma atomic layer deposition reactor. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2007, 25, 1357-1366.   | 0.9 | 107       |
| 39 | Remote Plasma ALD of Platinum and Platinum Oxide Films. Electrochemical and Solid-State Letters, 2009, 12, G34.  | 2.2 | 107       |
| 40 | Oxygen Evolution at Hematite Surfaces: The Impact of Structure and Oxygen Vacancies on Lowering the Overpotential. Journal of Physical Chemistry C, 2016, 120, 18201-18208.  | 1.5 | 107       |
| 41 | Evolution of the electrical and structural properties during the growth of Al doped ZnO films by remote plasma-enhanced metalorganic chemical vapor deposition. Journal of Applied Physics, 2007, 102, 043709.   | 1.1 | 106       |
| 42 | Reaction mechanisms during plasma-assisted atomic layer deposition of metal oxides: A case study for Al <sub>2</sub> O <sub>3</sub> . Journal of Applied Physics, 2008, 103, .   | 1.1 | 101       |
| 43 | Influence of the high-temperature "firing" step on high-rate plasma deposited silicon nitride films used as bulk passivating antireflection coatings on silicon solar cells. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 2123. | 1.6 | 99        |
| 44 | In situ reaction mechanism studies of plasma-assisted atomic layer deposition of Al <sub>2</sub> O <sub>3</sub> . Applied Physics Letters, 2006, 89, 131505.   | 1.5 | 99        |
| 45 | Hydrogenated amorphous silicon deposited at very high growth rates by an expanding Ar/H <sub>2</sub> /SiH <sub>4</sub> plasma. Journal of Applied Physics, 2001, 89, 2404-2413.  | 1.1 | 98        |
| 46 | Conformal Coverage of Poly(3,4-ethylenedioxythiophene) Films with Tunable Nanoporosity via Oxidative Chemical Vapor Deposition. ACS Nano, 2008, 2, 1959-1967.  | 7.3 | 97        |
| 47 | In situ spectroscopic ellipsometry study on the growth of ultrathin TiN films by plasma-assisted atomic layer deposition. Journal of Applied Physics, 2006, 100, 023534.   | 1.1 | 96        |
| 48 | Efficient Plasma Route to Nanostructure Materials: Case Study on the Use of m-WO <sub>3</sub> for Solar Water Splitting. ACS Applied Materials & Interfaces, 2013, 5, 7621-7625.   | 4.0 | 96        |
| 49 | Substrate-biasing during plasma-assisted atomic layer deposition to tailor metal-oxide thin film growth. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2013, 31, .   | 0.9 | 95        |
| 50 | CO and byproduct formation during CO <sub>2</sub> reduction in dielectric barrier discharges. Journal of Applied Physics, 2014, 116, .   | 1.1 | 95        |
| 51 | Low-Temperature Deposition of TiN by Plasma-Assisted Atomic Layer Deposition. Journal of the Electrochemical Society, 2006, 153, G956.   | 1.3 | 93        |
| 52 | Argon-hydrogen plasma jet investigated by active and passive spectroscopic means. Physical Review E, 1994, 49, 4397-4406.  | 0.8 | 90        |
| 53 | Homogeneous CO <sub>2</sub> conversion by microwave plasma: Wave propagation and diagnostics. Plasma Processes and Polymers, 2017, 14, 1600120.  | 1.6 | 90        |
| 54 | Surface textured ZnO films for thin film solar cell applications by expanding thermal plasma CVD. Thin Solid Films, 2001, 392, 226-230.  | 0.8 | 89        |

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|----|---|-----|-----------|
| 55 | Anomalous fast recombination in hydrogen plasmas involving rovibrational excitation. Physical Review E, 1993, 48, 2098-2102.  | 0.8 | 87        |
| 56 | Deposition of TiN and TaN by Remote Plasma ALD for Cu and Li Diffusion Barrier Applications. Journal of the Electrochemical Society, 2008, 155, G287.   | 1.3 | 86        |
| 57 | Recombination of argon in an expanding plasma jet. Physical Review E, 1993, 47, 2792-2797.  | 0.8 | 85        |
| 58 | Optical and mechanical properties of plasma-beam-deposited amorphous hydrogenated carbon. Journal of Applied Physics, 1996, 80, 5986-5995.  | 1.1 | 84        |
| 59 | Formation of cationic silicon clusters in a remote silane plasma and their contribution to hydrogenated amorphous silicon film growth. Journal of Applied Physics, 1999, 86, 4029-4039.                           | 1.1 | 78        |
| 60 | The behaviour of heavy particles in the expanding plasma jet in argon. Plasma Sources Science and Technology, 1994, 3, 501-510.   | 1.3 | 77        |
| 61 | Excellent Si surface passivation by low temperature SiO <sub>2</sub> using an ultrathin Al <sub>2</sub> O <sub>3</sub> capping film. Physica Status Solidi - Rapid Research Letters, 2011, 5, 22-24.              | 1.2 | 77        |
| 62 | Fluid modelling of CO <sub>2</sub> dissociation in a dielectric barrier discharge. Journal of Applied Physics, 2016, 119, .   | 1.1 | 77        |
| 63 | Synthesis and in situ characterization of low-resistivity TaNx films by remote plasma atomic layer deposition. Journal of Applied Physics, 2007, 102, 083517.   | 1.1 | 75        |
| 64 | <i>In situ</i> spectroscopic ellipsometry growth studies on the Al-doped ZnO films deposited by remote plasma-enhanced metalorganic chemical vapor deposition. Journal of Applied Physics, 2008, 103, .           | 1.1 | 73        |
| 65 | Ion and Photon Surface Interaction during Remote Plasma ALD of Metal Oxides. Journal of the Electrochemical Society, 2011, 158, G88.  | 1.3 | 73        |
| 66 | Surface passivation of phosphorus-diffused n <sup>+</sup> -type emitters by plasma-assisted atomic layer deposited Al <sub>2</sub> O <sub>3</sub> . Physica Status Solidi - Rapid Research Letters, 2012, 6, 4-6. | 1.2 | 73        |
| 67 | Time evolution of vibrational temperatures in a CO <sub>2</sub> glow discharge measured with infrared absorption spectroscopy. Plasma Sources Science and Technology, 2017, 26, 115008.                           | 1.3 | 73        |
| 68 | Highly efficient microcrystalline silicon solar cells deposited from a pure SiH <sub>4</sub> flow. Applied Physics Letters, 2005, 87, 263503.   | 1.5 | 71        |
| 69 | Plasma for electrification of chemical industry: a case study on CO <sub>2</sub> reduction. Plasma Physics and Controlled Fusion, 2018, 60, 014019.   | 0.9 | 71        |
| 70 | Absolute densities of N and excited N <sub>2</sub> in a N <sub>2</sub> plasma. Applied Physics Letters, 2003, 83, 4918-4920.  | 1.5 | 70        |
| 71 | Local deposition of high-purity Pt nanostructures by combining electron beam induced deposition and atomic layer deposition. Journal of Applied Physics, 2010, 107, 116102.                                       | 1.1 | 70        |
| 72 | The influence of partial surface discharging on the electrical characterization of DBDs. Plasma Sources Science and Technology, 2015, 24, 015016.   | 1.3 | 70        |

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|----|---|-----|-----------|
| 73 | The argon-hydrogen expanding plasma: model and experiments. Plasma Sources Science and Technology, 1995, 4, 74-85.  | 1.3 | 68        |
| 74 | Amorphous silicon solar cells on natively textured ZnO grown by PECVD. Thin Solid Films, 2001, 392, 315-319.  | 0.8 | 68        |
| 75 | Temperature dependence of the surface roughness evolution during hydrogenated amorphous silicon film growth. Applied Physics Letters, 2003, 82, 865-867.  | 1.5 | 68        |
| 76 | High and intermediate temperature sodium-sulfur batteries for energy storage: development, challenges and perspectives. RSC Advances, 2019, 9, 5649-5673.   | 1.7 | 68        |
| 77 | Effective passivation of Si surfaces by plasma deposited SiO <sub>x</sub> /a-SiN <sub>x</sub> :H stacks. Applied Physics Letters, 2011, 98, .   | 1.5 | 67        |
| 78 | B-spline parametrization of the dielectric function applied to spectroscopic ellipsometry on amorphous carbon. Journal of Applied Physics, 2009, 106, .   | 1.1 | 66        |
| 79 | Dielectric Properties of Thermal and Plasma-Assisted Atomic Layer Deposited Al <sub>2</sub> O <sub>3</sub> Thin Films. Journal of the Electrochemical Society, 2011, 158, G21.  | 1.3 | 65        |
| 80 | Film growth precursors in a remote SiH <sub>4</sub> plasma used for high-rate deposition of hydrogenated amorphous silicon. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2000, 18, 2153.   | 0.9 | 63        |
| 81 | Detection of CH in an expanding argon/acetylene plasma using cavity ring down absorption spectroscopy. Chemical Physics Letters, 1999, 310, 405-410.  | 1.2 | 61        |
| 82 | Cavity ring down study of the densities and kinetics of Si and SiH in a remote Ar-H <sub>2</sub> -SiH <sub>4</sub> plasma. Journal of Applied Physics, 2001, 89, 2065-2073.   | 1.1 | 61        |
| 83 | Effect of substrate conditions on the plasma beam deposition of amorphous hydrogenated carbon. Journal of Applied Physics, 1997, 82, 2643-2654.   | 1.1 | 59        |
| 84 | On the formation mechanisms of the diffuse atmospheric pressure dielectric barrier discharge in CVD processes of thin silica-like films. Plasma Sources Science and Technology, 2009, 18, 045021.   | 1.3 | 59        |
| 85 | Optical emission spectroscopy as a tool for studying, optimizing, and monitoring plasma-assisted atomic layer deposition processes. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2010, 28, 77-87.                                | 0.9 | 59        |
| 86 | Self-Regulated Plasma Heat Flux Mitigation Due to Liquid Sn Vapor Shielding. Physical Review Letters, 2016, 116, 135002.  | 2.9 | 59        |
| 87 | Scaling of Si and GaAs trench etch rates with aspect ratio, feature width, and substrate temperature. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1995, 13, 92. | 1.6 | 58        |
| 88 | An expanding thermal plasma for deposition of surface textured ZnO:Al with focus on thin film solar cell applications. Applied Surface Science, 2001, 173, 40-43.   | 3.1 | 58        |
| 89 | Plasma beam deposited amorphous hydrogenated carbon: Improved film quality at higher growth rate. Applied Physics Letters, 1996, 69, 152-154.   | 1.5 | 57        |
| 90 | High current diffuse dielectric barrier discharge in atmospheric pressure air for the deposition of thin silica-like films. Applied Physics Letters, 2010, 96, .  | 1.5 | 57        |

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|-----|---|------|-----------|
| 91  | Direct characterization of nanocrystal size distribution using Raman spectroscopy. Journal of Applied Physics, 2013, 114, 134310.   | 1.1  | 57        |
| 92  | Molecular dynamics simulations for the growth of diamond-like carbon films from low kinetic energy species. Diamond and Related Materials, 2004, 13, 1873-1881.   | 1.8  | 56        |
| 93  | Measurement of absolute radical densities in a plasma using modulated-beam line-of-sight threshold ionization mass spectrometry. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2004, 22, 71-81.                   | 0.9  | 55        |
| 94  | The importance of thermal dissociation in CO <sub>2</sub> microwave discharges investigated by power pulsing and rotational Raman scattering. Plasma Sources Science and Technology, 2019, 28, 055015.                                      | 1.3  | 55        |
| 95  | Composition and bonding structure of plasma-assisted ALD Al <sub>2</sub> O <sub>3</sub> films. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 976-979.  | 0.8  | 53        |
| 96  | Towards Roll-to-Roll Deposition of High Quality Moisture Barrier Films on Polymers by Atmospheric Pressure Plasma Assisted Process. Plasma Processes and Polymers, 2015, 12, 545-554.   | 1.6  | 53        |
| 97  | Co-electrolysis of H <sub>2</sub> O and CO <sub>2</sub> on exsolved Ni nanoparticles for efficient syngas generation at controllable H <sub>2</sub> /CO ratios. Applied Catalysis B: Environmental, 2019, 258, 117950.                      | 10.8 | 53        |
| 98  | Diagnostics of the magnetized low-pressure hydrogen plasma jet: Molecular regime. Journal of Applied Physics, 1996, 80, 1312-1324.  | 1.1  | 52        |
| 99  | Symmetrical Exsolution of Rh Nanoparticles in Solid Oxide Cells for Efficient Syngas Production from Greenhouse Gases. ACS Catalysis, 2020, 10, 1278-1288.  | 5.5  | 52        |
| 100 | Plasma chemistry during the deposition of a-C:H films and its influence on film properties. Diamond and Related Materials, 2003, 12, 90-97.   | 1.8  | 51        |
| 101 | Smooth and Self-Similar SiO <sub>2</sub> -like Films on Polymers Synthesized in Roll-to-Roll Atmospheric Pressure PECVD for Gas Diffusion Barrier Applications. Plasma Processes and Polymers, 2010, 7, 635-639.                            | 1.6  | 51        |
| 102 | Atomic layer deposition of Ru from CpRu(CO) <sub>2</sub> Et using O <sub>2</sub> gas and O <sub>2</sub> plasma. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2011, 29, .   | 0.9  | 51        |
| 103 | Cross section for the mutual neutralization reaction H <sub>2</sub> <sup>+</sup> +H <sup>-</sup> , calculated in a multiple-crossing Landau-Zener approximation. Physical Review A, 1995, 51, 3362-3365.                                    | 1.0  | 50        |
| 104 | Surface hydride composition of plasma deposited hydrogenated amorphous silicon: in situ infrared study of ion flux and temperature dependence. Surface Science, 2003, 530, 1-16.  | 0.8  | 50        |
| 105 | Quasi-Ice Monolayer on Atomically Smooth Amorphous SiO <sub>2</sub> at Room Temperature Observed with a High-Finesse Optical Resonator. Physical Review Letters, 2005, 95, 166104.  | 2.9  | 50        |
| 106 | Cavity ring down detection of SiH <sub>3</sub> in a remote SiH <sub>4</sub> plasma and comparison with model calculations and mass spectrometry. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2001, 19, 467-476. | 0.9  | 49        |
| 107 | Plasma-assisted atomic layer deposition of TiN/Al <sub>2</sub> O <sub>3</sub> stacks for metal-oxide-semiconductor capacitor applications. Journal of Applied Physics, 2009, 106, .   | 1.1  | 49        |
| 108 | Surface reaction probability during fast deposition of hydrogenated amorphous silicon with a remote silane plasma. Journal of Applied Physics, 2000, 87, 3313-3320.   | 1.1  | 47        |



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|-----|---|-----|-----------|
| 109 | Abstraction of atomic hydrogen by atomic deuterium from an amorphous hydrogenated silicon surface. Journal of Chemical Physics, 2002, 117, 10805-10816.   | 1.2 | 47        |
| 110 | Threshold ionization mass spectrometry of reactive species in remote Ar•C <sub>2</sub> H <sub>2</sub> expanding thermal plasma. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 1400-1412.  | 0.9 | 46        |
| 111 | Atmospheric Pressure Barrier Discharge Deposition of Silica-Like Films on Polymeric Substrates. Plasma Processes and Polymers, 2007, 4, S440-S444.  | 1.6 | 46        |
| 112 | High Quality SiO <sub>2</sub> -like Layers by Large Area Atmospheric Pressure Plasma Enhanced CVD: Deposition Process Studies by Surface Analysis. Plasma Processes and Polymers, 2009, 6, 693-702.   | 1.6 | 46        |
| 113 | Substrate Biasing during Plasma-Assisted ALD for Crystalline Phase-Control of TiO <sub>2</sub> Thin Films. Electrochemical and Solid-State Letters, 2011, 15, G1-G3.  | 2.2 | 46        |
| 114 | Characterization of plasma beam deposited amorphous hydrogenated silicon. Applied Physics Letters, 1995, 67, 491-493.   | 1.5 | 45        |
| 115 | High-rate plasma-deposited SiO <sub>2</sub> films for surface passivation of crystalline silicon. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 1823-1830.  | 0.9 | 45        |
| 116 | Implications of thermo-chemical instability on the contracted modes in CO <sub>2</sub> microwave plasmas. Plasma Sources Science and Technology, 2020, 29, 025005.  | 1.3 | 45        |
| 117 | Plasma Activated Electrochemical Ammonia Synthesis from Nitrogen and Water. ACS Energy Letters, 2021, 6, 313-319.   | 8.8 | 44        |
| 118 | Oscillatory vapour shielding of liquid metal walls in nuclear fusion devices. Nature Communications, 2017, 8, 192.  | 5.8 | 43        |
| 119 | Hydrogen poor cationic silicon clusters in an expanding argon•hydrogen•silane plasma. Applied Physics Letters, 1998, 72, 2397-2399.   | 1.5 | 42        |
| 120 | The heating mechanism of electrons in the shock front of an expanding plasma. Plasma Sources Science and Technology, 1994, 3, 511-520.  | 1.3 | 41        |
| 121 | Time-resolved cavity ringdown study of the Si and SiH <sub>3</sub> surface reaction probability during plasma deposition of a-Si:H at different substrate temperatures. Journal of Applied Physics, 2004, 96, 4094-4106.  | 1.1 | 41        |
| 122 | Electrochemical Activation of Atomic Layer-Deposited Cobalt Phosphate Electrocatalysts for Water Oxidation. ACS Catalysis, 2021, 11, 2774-2785.   | 5.5 | 41        |
| 123 | Industrial high-rate (• <sup>1</sup> / <sub>4</sub> nm/s) deposited silicon nitride yielding high-quality bulk and surface passivation under optimum anti-reflection coating conditions. Progress in Photovoltaics: Research Real-time study of 2005:13705:115.mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>a</mml:mi><mml:mtext>•</mml:mtext><mml:mi> | 4.4 | 40        |
| 124 | Real-time study of 2005:13705:115.mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Si</mml:mi><mml:mo>•</mml:mo><mml:mi>H</mml:mi><mml:mo>•</mml:mo><mml:mi>c</mml:mi><mml:mtext>•</mml:mtext><mml:mi>   | 4.0 | 40        |
| 125 | Surface Hydride Composition of Plasma-Synthesized Si Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 20375-20379.  | 1.5 | 40        |
| 126 | Nanostructuring of Iron Surfaces by Low-Energy Helium Ions. ACS Applied Materials & Interfaces, 2014, 6, 3462-3468.   | 4.0 | 40        |



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|-----|---|-----|-----------|
| 127 | Quantum Magnetoconductance of a Nondegenerate Two-Dimensional Electron Gas. Europhysics Letters, 1988, 6, 75-80.  | 0.7 | 39        |
| 128 | Production Mechanisms of NH and NH <sub>2</sub> Radicals in N <sub>2</sub> H <sub>2</sub> Plasmas. Journal of Physical Chemistry A, 2007, 111, 11460-11472.   | 1.1 | 39        |
| 129 | The atomic hydrogen flux to silicon growth flux ratio during microcrystalline silicon solar cell deposition. Applied Physics Letters, 2008, 93, 111914.   | 1.5 | 39        |
| 130 | Surface Modifications Induced by High Fluxes of Low Energy Helium Ions. Scientific Reports, 2015, 5, 9779.  | 1.6 | 39        |
| 131 | High-rate deposition of a-SiN <sub>x</sub> :H for photovoltaic applications by the expanding thermal plasma. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2002, 20, 1704-1715.   | 0.9 | 38        |
| 132 | Optical second-harmonic generation in thin film systems. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2008, 26, 1519-1537.   | 0.9 | 38        |
| 133 | Effect of ion bombardment on the a-Si:H based surface passivation of c-Si surfaces. Applied Physics Letters, 2011, 98, .  | 1.5 | 38        |
| 134 | Quality improvement of plasma-beam-deposited amorphous hydrogenated carbon with higher growth rate. Plasma Sources Science and Technology, 1996, 5, 492-498.  | 1.3 | 37        |
| 135 | Argon ion-induced dissociation of acetylene in an expanding Ar/C <sub>2</sub> H <sub>2</sub> plasma. Applied Physics Letters, 1999, 74, 2927-2929.  | 1.5 | 37        |
| 136 | Direct and highly sensitive measurement of defect-related absorption in amorphous silicon thin films by cavity ringdown spectroscopy. Applied Physics Letters, 2004, 84, 3079-3081.   | 1.5 | 37        |
| 137 | The effect of ion-surface and ion-bulk interactions during hydrogenated amorphous silicon deposition. Journal of Applied Physics, 2007, 102, 073523.  | 1.1 | 37        |
| 138 | Real time in situ spectroscopic ellipsometry of the growth and plasmonic properties of Au nanoparticles on SiO <sub>2</sub> . Nano Research, 2012, 5, 513-520.  | 5.8 | 37        |
| 139 | Four ways to determine the electron density in low-temperature plasmas. Physical Review E, 1994, 49, 2272-2275.   | 0.8 | 36        |
| 140 | Ultra-high throughput plasma processing of free standing silicon nanocrystals with lognormal size distribution. Journal of Applied Physics, 2013, 113, .  | 1.1 | 36        |
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