

Ivan P Parkin

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806

papers

32,304

citations

80

h-index

143

g-index

835

ext. papers

36,980

ext. citations

7.6

avg, IF

7.62

L-index

#	Paper	IF	Citations
806	Mechanochemistry: opportunities for new and cleaner synthesis. <i>Chemical Society Reviews</i> , 2012 , 41, 413-47	58.5	1832
805	Band alignment of rutile and anatase TiO ₂ . <i>Nature Materials</i> , 2013 , 12, 798-801	27	1656
804	Repellent materials. Robust self-cleaning surfaces that function when exposed to either air or oil. <i>Science</i> , 2015 , 347, 1132-5	33.3	1185
803	Self-cleaning coatings. <i>Journal of Materials Chemistry</i> , 2005 , 15, 1689		781
802	Antimicrobial surfaces and their potential in reducing the role of the inanimate environment in the incidence of hospital-acquired infections. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3819		394
801	Intelligent Window Coatings: Atmospheric Pressure Chemical Vapor Deposition of Tungsten-Doped Vanadium Dioxide. <i>Chemistry of Materials</i> , 2004 , 16, 744-749	9.6	330
800	Atmospheric Pressure Chemical Vapor Deposition of Tin Sulfides (SnS, Sn ₂ S ₃ , and SnS ₂) on Glass. <i>Chemistry of Materials</i> , 1999 , 11, 1792-1799	9.6	313
799	Titania and silver-titania composite films on glass-potent antimicrobial coatings. <i>Journal of Materials Chemistry</i> , 2007 , 17, 95-104		286
798	Superhydrophobic polymer-coated copper-mesh; membranes for highly efficient oil-water separation. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 5943	13	270
797	Characterisation of the photocatalyst Pilkington Activia reference film photocatalyst?. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003 , 160, 213-224	4.7	251
796	Preparation and characterisation of super-hydrophobic surfaces. <i>Chemistry - A European Journal</i> , 2010 , 16, 3568-88	4.8	229
795	n-Type doped transparent conducting binary oxides: an overview. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 6946-6961	7.1	214
794	The antimicrobial properties of light-activated polymers containing methylene blue and gold nanoparticles. <i>Biomaterials</i> , 2009 , 30, 89-93	15.6	211
793	Tuning the interlayer spacing of graphene laminate films for efficient pore utilization towards compact capacitive energy storage. <i>Nature Energy</i> , 2020 , 5, 160-168	62.3	205
792	Intelligent window coatings: atmospheric pressure chemical vapour deposition of vanadium oxides. <i>Journal of Materials Chemistry</i> , 2002 , 12, 2936-2939		203
791	Bismuth oxyhalides: synthesis, structure and photoelectrochemical activity. <i>Chemical Science</i> , 2016 , 7, 4832-4841	9.4	197
790	Aerosol-assisted delivery of precursors for chemical vapour deposition: expanding the scope of CVD for materials fabrication. <i>Dalton Transactions</i> , 2013 , 42, 9406-22	4.3	196

789	Novel TiO ₂ CVD films for semiconductor photocatalysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2002 , 151, 171-179	4.7	192
788	Self-driven one-step oil removal from oil spill on water via selective-wettability steel mesh. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 19858-65	9.5	191
787	Intelligent Multifunctional VO ₂ /SiO ₂ /TiO ₂ Coatings for Self-Cleaning, Energy-Saving Window Panels. <i>Chemistry of Materials</i> , 2016 , 28, 1369-1376	9.6	188
786	Thick titanium dioxide films for semiconductor photocatalysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003 , 160, 185-194	4.7	186
785	S, N-Co-Doped Graphene-Nickel Cobalt Sulfide Aerogel: Improved Energy Storage and Electrocatalytic Performance. <i>Advanced Science</i> , 2017 , 4, 1600214	13.6	169
784	The role of surfaces in catheter-associated infections. <i>Chemical Society Reviews</i> , 2009 , 38, 3435-48	58.5	166
783	Energy modelling studies of thermochromic glazing. <i>Energy and Buildings</i> , 2010 , 42, 1666-1673	7	159
782	The incorporation of noble metal nanoparticles into host matrix thin films: synthesis, characterisation and applications. <i>Journal of Materials Chemistry</i> , 2009 , 19, 574-590		153
781	An investigation into bacterial attachment to an elastomeric superhydrophobic surface prepared via aerosol assisted deposition. <i>Thin Solid Films</i> , 2011 , 519, 3722-3727	2.2	151
780	Intelligent Thermochromic Windows. <i>Journal of Chemical Education</i> , 2006 , 83, 393	2.4	149
779	Nanoparticles: their potential use in antibacterial photodynamic therapy. <i>Photochemical and Photobiological Sciences</i> , 2011 , 10, 712-20	4.2	147
778	Superhydrophobic photocatalytic surfaces through direct incorporation of titania nanoparticles into a polymer matrix by aerosol assisted chemical vapor deposition. <i>Advanced Materials</i> , 2012 , 24, 3505-3514	3.4	146
777	Atmospheric Pressure Chemical Vapor Deposition of Crystalline Monoclinic WO ₃ and WO _{3-x} Thin Films from Reaction of WCl ₆ with O-Containing Solvents and Their Photochromic and Electrochromic Properties. <i>Chemistry of Materials</i> , 2005 , 17, 1583-1590	9.6	146
776	Investigation of a Branchlike MoO(3)/polypyrrole hybrid with enhanced electrochemical performance used as an electrode in supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 1125-30	9.5	145
775	Gas sensing with nano-indium oxides (In ₂ O ₃) prepared via continuous hydrothermal flow synthesis. <i>Langmuir</i> , 2012 , 28, 1879-85	4	144
774	Bulk magnetization of the heavy rare earth titanate pyrochlores - a series of model frustrated magnets. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 483-495	1.8	144
773	Photo-induced enhanced Raman spectroscopy for universal ultra-trace detection of explosives, pollutants and biomolecules. <i>Nature Communications</i> , 2016 , 7, 12189	17.4	143
772	Titania and tungsten doped titania thin films on glass; active photocatalysts. <i>Polyhedron</i> , 2003 , 22, 35-44	2.7	143

771	Aerosol assisted chemical vapor deposition using nanoparticle precursors: a route to nanocomposite thin films. <i>Journal of the American Chemical Society</i> , 2006 , 128, 1587-97	16.4	140
770	Nitrogen-doped TiO ₂ thin films: photocatalytic applications for healthcare environments. <i>Dalton Transactions</i> , 2011 , 40, 1635-40	4.3	139
769	Ultrasensitive plano-concave optical microresonators for ultrasound sensing. <i>Nature Photonics</i> , 2017 , 11, 714-719	33.9	138
768	Creating superhydrophobic mild steel surfaces for water proofing and oil/water separation. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 11628-11634	13	136
767	Atmospheric pressure chemical vapour deposition of SnSe and SnSe ₂ thin films on glass. <i>Thin Solid Films</i> , 2008 , 516, 4750-4757	2.2	130
766	The Anti-Biofouling Properties of Superhydrophobic Surfaces are Short-Lived. <i>ACS Nano</i> , 2018 , 12, 6050-6058	10.7	128
765	Solid state metathesis routes to transition metal carbides. <i>Journal of Materials Chemistry</i> , 1999 , 9, 1275-1281		127
764	Large-scale fabrication of translucent and repairable superhydrophobic spray coatings with remarkable mechanical, chemical durability and UV resistance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10622-10631	13	124
763	One pot synthesis of nickel foam supported self-assembly of NiWO ₄ and CoWO ₄ nanostructures that act as high performance electrochemical capacitor electrodes. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 14272-14278	13	119
762	Self-propagating high-temperature synthesis of ferrites MFe ₂ O ₄ (M = Mg, Ba, Co, Ni, Cu, Zn); reactions in an external magnetic field. <i>Journal of Materials Chemistry</i> , 1999 , 9, 2545-2552		118
761	Atmospheric pressure chemical vapor deposition of WSe ₂ thin films on glass/Highly hydrophobic sticky surfaces. <i>Journal of Materials Chemistry</i> , 2006 , 16, 122-127		115
760	Evaluation of the BET Theory for the Characterization of Meso and Microporous MOFs. <i>Small Methods</i> , 2018 , 2, 1800173	12.8	114
759	A Dendritic Nickel Cobalt Sulfide Nanostructure for Alkaline Battery Electrodes. <i>Advanced Functional Materials</i> , 2018 , 28, 1705937	15.6	112
758	Carboxylic acid-stabilised iron oxide nanoparticles for use in magnetic hyperthermia. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6529		112
757	Alleviation of Dendrite Formation on Zinc Anodes via Electrolyte Additives. <i>ACS Energy Letters</i> , 2021 , 6, 395-403	20.1	110
756	Creating robust superamphiphobic coatings for both hard and soft materials. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 20999-21008	13	109
755	Super-robust superhydrophobic concrete. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14542-14550	13	109
754	Atmospheric pressure chemical vapour deposition of tungsten doped vanadium(IV) oxide from VOCl ₃ , water and WCl ₆ . <i>Journal of Materials Chemistry</i> , 2004 , 14, 2554		109

753	Transient Absorption Spectroscopy of Anatase and Rutile: The Impact of Morphology and Phase on Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 10439-10447	3.8	107
752	Lethal photosensitisation of Staphylococcus aureus using a toluidine blue Otoproningold nanoparticle conjugate. <i>Journal of Materials Chemistry</i> , 2007 , 17, 3739		106
751	Water droplet bouncing--a definition for superhydrophobic surfaces. <i>Chemical Communications</i> , 2011 , 47, 12059-61	5.8	105
750	Table Salt as a Template to Prepare Reusable Porous PVDF/MWCNT Foam for Separation of Immiscible Oils/Organic Solvents and Corrosive Aqueous Solutions. <i>Advanced Functional Materials</i> , 2017 , 27, 1702926	15.6	103
749	The first single source deposition of tin sulfide coatings on glass: aerosol-assisted chemical vapour deposition using [Sn(SCH ₂ CH ₂ S) ₂]. <i>Journal of Materials Chemistry</i> , 2001 , 11, 1486-1490		103
748	Where Do Photogenerated Holes Go in Anatase:Rutile TiO ₂ ? A Transient Absorption Spectroscopy Study of Charge Transfer and Lifetime. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 715-23	2.8	101
747	Enhanced photocatalytic activity under visible light in N-doped TiO ₂ thin films produced by APCVD preparations using t-butylamine as a nitrogen source and their potential for antibacterial films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009 , 207, 244-253	4.7	100
746	White light induced photocatalytic activity of sulfur-doped TiO ₂ thin films and their potential for antibacterial application. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8747		99
745	Buoyancy increase and drag-reduction through a simple superhydrophobic coating. <i>Nanoscale</i> , 2017 , 9, 7588-7594	7.7	98
744	Atmospheric pressure chemical vapour deposition of thermochromic tungsten doped vanadium dioxide thin films for use in architectural glazing. <i>Thin Solid Films</i> , 2009 , 517, 4565-4570	2.2	98
743	Titanium dioxide and composite metal/metal oxide titania thin films on glass: A comparative study of photocatalytic activity. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009 , 204, 183-190	4.7	98
742	Self-cleaning superhydrophobic surface based on titanium dioxide nanowires combined with polydimethylsiloxane. <i>Applied Surface Science</i> , 2013 , 284, 319-323	6.7	97
741	Tungsten Doped TiO ₂ with Enhanced Photocatalytic and Optoelectrical Properties via Aerosol Assisted Chemical Vapor Deposition. <i>Scientific Reports</i> , 2015 , 5, 10952	4.9	96
740	Nano-composite thermochromic thin films and their application in energy-efficient glazing. <i>Solar Energy Materials and Solar Cells</i> , 2010 , 94, 141-151	6.4	93
739	Multifunctional P-Doped TiO ₂ Films: A New Approach to Self-Cleaning, Transparent Conducting Oxide Materials. <i>Chemistry of Materials</i> , 2015 , 27, 3234-3242	9.6	92
738	Multi-Scale Investigations of [Ni _{0.25} V ₂ O ₅]·H ₂ O Cathode Materials in Aqueous Zinc-Ion Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2000058	21.8	92
737	Multichannel Detection and Differentiation of Explosives with a Quantum Dot Array. <i>ACS Nano</i> , 2016 , 10, 1139-46	16.7	92
736	Barrel-Shaped Oil Skimmer Designed for Collection of Oil from Spills. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1500350	4.6	91

735	Porous biocompatible implants and tissue scaffolds synthesized by selective laser sintering from Ti and NiTi. <i>Journal of Materials Chemistry</i> , 2008 , 18, 1309		89
734	Ultrasmall CuCo ₂ S ₄ Nanocrystals: All-in-One Theragnosis Nanoplatfrom with Magnetic Resonance/Near-Infrared Imaging for Efficiently Photothermal Therapy of Tumors. <i>Advanced Functional Materials</i> , 2017 , 27, 1606218	15.6	86
733	Large-Area Fabrication of Droplet Pancake Bouncing Surface and Control of Bouncing State. <i>ACS Nano</i> , 2017 , 11, 9259-9267	16.7	85
732	Dual-Mechanism Antimicrobial Polymer/ZnO Nanoparticle and Crystal Violet-Encapsulated Silicone. <i>Advanced Functional Materials</i> , 2015 , 25, 1367-1373	15.6	84
731	Enhanced transparent-conducting fluorine-doped tin oxide films formed by Aerosol-Assisted Chemical Vapour Deposition. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 984-996	7.1	84
730	Designing durable and flexible superhydrophobic coatings and its application in oil purification. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 4107-4116	13	83
729	CVD and precursor chemistry of transition metal nitrides. <i>Coordination Chemistry Reviews</i> , 2013 , 257, 2073-2119	23.2	83
728	Synthesis and characterisation of W-doped VO ₂ by Aerosol Assisted Chemical Vapour Deposition. <i>Thin Solid Films</i> , 2008 , 516, 1992-1997	2.2	82
727	Solution Processing Route to Multifunctional Titania Thin Films: Highly Conductive and Photocatalytically Active Nb:TiO ₂ . <i>Advanced Functional Materials</i> , 2014 , 24, 5075-5085	15.6	81
726	Efficiently texturing hierarchical superhydrophobic fluoride-free translucent films by AACVD with excellent durability and self-cleaning ability. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17633-17641	13	80
725	APCVD of thermochromic vanadium dioxide thin films—solid solutions V ₂ MxO ₂ (M = Mo, Nb) or composites VO ₂ : SnO ₂ . <i>Journal of Materials Chemistry</i> , 2005 , 15, 4560		80
724	Carbon-Nanotube/PDMS Composite Coatings on Optical Fibers for All-Optical Ultrasound Imaging. <i>Advanced Functional Materials</i> , 2016 , 26, 8390-8396	15.6	77
723	Sulfur-Deficient Bismuth Sulfide/Nitrogen-Doped Carbon Nanofibers as Advanced Free-Standing Electrode for Asymmetric Supercapacitors. <i>Small</i> , 2018 , 14, e1801562	11	77
722	Highly sensitive ZnO nanorod- and nanoprism-based NO ₂ gas sensors: size and shape control using a continuous hydrothermal pilot plant. <i>Langmuir</i> , 2013 , 29, 10603-9	4	77
721	Exceptional supercapacitor performance from optimized oxidation of graphene-oxide. <i>Energy Storage Materials</i> , 2019 , 17, 12-21	19.4	77
720	Water Oxidation Kinetics of Accumulated Holes on the Surface of a TiO ₂ Photoanode: A Rate Law Analysis. <i>ACS Catalysis</i> , 2017 , 7, 4896-4903	13.1	76
719	Evidence and Effect of Photogenerated Charge Transfer for Enhanced Photocatalysis in WO ₃ /TiO ₂ Heterojunction Films: A Computational and Experimental Study. <i>Advanced Functional Materials</i> , 2017 , 27, 1605413	15.6	76
718	Graphene/nitrogen-doped porous carbon sandwiches for the metal-free oxygen reduction reaction: conductivity versus active sites. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 12658-12666	13	76

717	Facile fabrication of stable superhydrophobic SiO ₂ /polystyrene coating and separation of liquids with different surface tension. <i>Chemical Engineering Journal</i> , 2013 , 231, 414-419	14.7	76
716	A bioinspired solution for spectrally selective thermochromic VO ₂ coated intelligent glazing. <i>Optics Express</i> , 2013 , 21 Suppl 5, A750-64	3.3	75
715	The interaction between gold nanoparticles and cationic and anionic dyes: enhanced UV-visible absorption. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 10513-8	3.6	75
714	High-efficiency bubble transportation in an aqueous environment on a serial wedge-shaped wettability pattern. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 13567-13576	13	74
713	Shining light on materials--a self-sterilising revolution. <i>Advanced Drug Delivery Reviews</i> , 2013 , 65, 570-80	18.5	72
712	Aerosol Assisted Chemical Vapor Deposition of Transparent Conductive Zinc Oxide Films. <i>Chemistry of Materials</i> , 2012 , 24, 4704-4710	9.6	72
711	Aerosol assisted chemical vapour deposition of photochromic tungsten oxide and doped tungsten oxide thin films. <i>Journal of Materials Chemistry</i> , 2004 , 14, 2864		72
710	Copper-based water repellent and antibacterial coatings by aerosol assisted chemical vapour deposition. <i>Chemical Science</i> , 2016 , 7, 5126-5131	9.4	72
709	Flexible and Self-Powered Photodetector Arrays Based on All-Inorganic CsPbBr Quantum Dots. <i>Advanced Materials</i> , 2020 , 32, e2000004	24	72
708	Atmospheric pressure chemical vapour deposition of titanium dioxide coatings on glass. <i>Journal of Materials Chemistry</i> , 2003 , 13, 56-60		70
707	Anatase Thin Films on Glass from the Chemical Vapor Deposition of Titanium(IV) Chloride and Ethyl Acetate. <i>Chemistry of Materials</i> , 2003 , 15, 46-50	9.6	70
706	Laser-generated ultrasound with optical fibres using functionalised carbon nanotube composite coatings. <i>Applied Physics Letters</i> , 2014 , 104, 173502	3.4	69
705	Antimicrobial activity of methylene blue and toluidine blue O covalently bound to a modified silicone polymer surface. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6167		69
704	Tungsten Oxide Coatings from the Aerosol-Assisted Chemical Vapor Deposition of W(OAr) ₆ (Ar = C ₆ H ₅ , C ₆ H ₄ F-4, C ₆ H ₃ F ₂ -3,4); Photocatalytically Active WO ₃ Films. <i>Chemistry of Materials</i> , 2003 , 15, 2786-2796	9.6	69
703	Scalable route to CH ₃ NH ₃ PbI ₃ perovskite thin films by aerosol assisted chemical vapour deposition. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 9071-9073	13	67
702	Synthesis and thermal decomposition studies of homo- and heteroleptic tin(IV) thiolates and dithiocarbamates: molecular precursors for tin sulfides. <i>Dalton Transactions RSC</i> , 2002 , 1085-1092		67
701	Electrochemical sensor for discrimination tyrosine enantiomers using graphene quantum dots and β-cyclodextrins composites. <i>Talanta</i> , 2017 , 173, 94-100	6.2	66
700	Spectral and photocatalytic characteristics of TiO ₂ CVD films on quartz. <i>Photochemical and Photobiological Sciences</i> , 2002 , 1, 865-8	4.2	65

- 699 Antimicrobial activity of copper and copper(i) oxide thin films deposited via aerosol-assisted CVD. *Journal of Materials Chemistry B*, **2014**, 2, 2855-2860 7.3 64
- 698 Nanoparticulate silver coated-titania thin films Photo-oxidative destruction of stearic acid under different light sources and antimicrobial effects under hospital lighting conditions. *Journal of Photochemistry and Photobiology A: Chemistry*, **2011**, 220, 113-123 4.7 64
- 697 Nb-Doped VO₂ Thin Films Prepared by Aerosol-Assisted Chemical Vapour Deposition. *European Journal of Inorganic Chemistry*, **2007**, 2007, 4050-4055 2.3 64
- 696 Zinc Oxide Thin Films Grown by Aerosol Assisted CVD. *Chemical Vapor Deposition*, **2008**, 14, 366-372 64
- 695 Vanadium(IV) oxide thin films on glass and silicon from the atmospheric pressure chemical vapour deposition reaction of VOCl₃ and water. *Polyhedron*, **2004**, 23, 3087-3095 2.7 64
- 694 A superhydrophilic cement-coated mesh: an acid, alkali, and organic reagent-free material for oil/water separation. *Nanoscale*, **2018**, 10, 1920-1929 7.7 63
- 693 The vapour phase detection of explosive markers and derivatives using two fluorescent metal-organic frameworks. *Journal of Materials Chemistry A*, **2015**, 3, 6351-6359 13 63
- 692 The use of combinatorial chemical vapor deposition in the synthesis of Ti(3-delta)O₄N with 0.06 Journal of the American Chemical Society, **2007**, 129, 15541-8 16.4 62
- 691 Solid state metathesis: synthesis of metal carbides from metal oxides. *Journal of Materials Chemistry*, **2001**, 11, 3116-3119 62
- 690 Origin of High Mobility in Molybdenum-Doped Indium Oxide. *Chemistry of Materials*, **2015**, 27, 2788-2796 9.6 61
- 689 Potent Antibacterial Activity of Copper Embedded into Silicone and Polyurethane. *ACS Applied Materials & Interfaces*, **2015**, 7, 22807-13 9.5 61
- 688 High-throughput continuous hydrothermal synthesis of an entire nanoceramic phase diagram. *ACS Combinatorial Science*, **2009**, 11, 829-34 61
- 687 X-ray diffraction area mapping of preferred orientation and phase change in TiO₂ thin films deposited by chemical vapor deposition. *Journal of the American Chemical Society*, **2006**, 128, 12147-55 16.4 61
- 686 New routes to alkali-metal-lanthanide-earth-metal sulfides. *Journal of Materials Chemistry*, **1994**, 4, 1603-1609 61
- 685 Aerosol Assisted Chemical Vapor Deposition of Gold and Nanocomposite Thin Films from Hydrogen Tetrachloroaurate(III). *Chemistry of Materials*, **2007**, 19, 4639-4647 9.6 60
- 684 Atmospheric pressure chemical vapour deposition of WS₂ thin films on glass. *Polyhedron*, **2003**, 22, 1499-1505 60
- 683 Deposition of tin sulfide thin films from novel, volatile (fluoroalkylthiolato)tin(IV) precursors. *Journal of Materials Chemistry*, **2001**, 11, 469-473 60
- 682 Antibacterial Activity of Light-Activated Silicone Containing Methylene Blue and Gold Nanoparticles of Different Sizes. *Journal of Cluster Science*, **2010**, 21, 427-438 3 59

681	Gallium Oxide Thin Films from the Atmospheric Pressure Chemical Vapor Deposition Reaction of Gallium Trichloride and Methanol. <i>Chemistry of Materials</i> , 2004 , 16, 2489-2493	9.6	59
680	Super-durable, non-fluorinated superhydrophobic free-standing items. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 357-362	13	59
679	Enhanced electrical properties of antimony doped tin oxide thin films deposited via aerosol assisted chemical vapour deposition. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 7257-7266	7.1	59
678	Flexible and mechanically robust superhydrophobic silicone surfaces with stable CassieBaxter state. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14180-14186	13	58
677	Tantalum and Titanium doped In ₂ O ₃ Thin Films by Aerosol-Assisted Chemical Vapor Deposition and their Gas Sensing Properties. <i>Chemistry of Materials</i> , 2012 , 24, 2864-2871	9.6	58
676	Atmospheric pressure chemical vapour deposition of vanadium diselenide thin films. <i>Applied Surface Science</i> , 2007 , 253, 6041-6046	6.7	58
675	Aerosol assisted chemical vapour deposition of WO ₃ thin films from tungsten hexacarbonyl and their gas sensing properties. <i>Journal of Materials Chemistry</i> , 2007 , 17, 3708		58
674	Synthesis of titanium(IV) guanidinate complexes and the formation of titanium carbonitride via low-pressure chemical vapor deposition. <i>Inorganic Chemistry</i> , 2005 , 44, 615-9	5.1	58
673	Optimizing the Activity of Nanoneedle Structured WO ₃ Photoanodes for Solar Water Splitting: Direct Synthesis via Chemical Vapor Deposition. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 5983-5993	3.8	57
672	Sensitive and specific detection of explosives in solution and vapour by surface-enhanced Raman spectroscopy on silver nanocubes. <i>Nanoscale</i> , 2017 , 9, 16459-16466	7.7	57
671	A novel damage-tolerant superhydrophobic and superoleophilic material. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 9002-9006	13	57
670	Incorporation of methylene blue and nanogold into polyvinyl chloride catheters; a new approach for light-activated disinfection of surfaces. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15388		57
669	Deposition of tin sulfide thin films from tin(IV) thiolate precursors. <i>Journal of Materials Chemistry</i> , 2001 , 11, 464-468		57
668	Highly conductive and transparent gallium doped zinc oxide thin films via chemical vapor deposition. <i>Scientific Reports</i> , 2020 , 10, 638	4.9	56
667	Aluminium/gallium, indium/gallium, and aluminium/indium co-doped ZnO thin films deposited via aerosol assisted CVD. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 588-597	7.1	56
666	Underwater Spontaneous Pumpless Transportation of Nonpolar Organic Liquids on Extreme Wettability Patterns. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 2942-9	9.5	56
665	Antimicrobial activity of polyurethane embedded with methylene blue, toluidene blue and gold nanoparticles against Staphylococcus aureus; illuminated with white light. <i>Materials Chemistry and Physics</i> , 2011 , 129, 446-450	4.4	56
664	Enhanced adsorption capacity of ultralong hydrogen titanate nanobelts for antibiotics. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 4352-4358	13	55

663	Refining Energy Levels in ReS ₂ Nanosheets by Low-Valent Transition-Metal Doping for Dual-Boosted Electrochemical Ammonia/Hydrogen Production. <i>Advanced Functional Materials</i> , 2020 , 30, 1907376	15.6	55
662	Textured fluorine-doped tin dioxide films formed by chemical vapour deposition. <i>Chemistry - A European Journal</i> , 2011 , 17, 11613-21	4.8	54
661	Atmospheric pressure chemical vapour deposition of VO ₂ and VO ₂ /TiO ₂ films from the reaction of VOCl ₃ , TiCl ₄ and water. <i>Journal of Materials Chemistry</i> , 2004 , 14, 1190		54
660	N Electroreduction to NH ₃ by Selenium Vacancy-Rich ReSe Catalysis at an Abrupt Interface. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 13320-13327	16.4	53
659	Transforming a Simple Commercial Glue into Highly Robust Superhydrophobic Surfaces via Aerosol-Assisted Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42327-42335	9.5	53
658	The combinatorial atmospheric pressure chemical vapour deposition (cAPCVD) of a gradating substitutional/interstitial N-doped anatase TiO ₂ thin-film; UVA and visible light photocatalytic activities. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010 , 216, 156-166	4.7	53
657	Unprecedented Piezoresistance Coefficient in Strained Silicon Carbide. <i>Nano Letters</i> , 2019 , 19, 6569-6576	11.5	52
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