

Andrew G Thomas

List of Publications by Year in descending order

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114
papers

3,267
citations

159573

30
h-index

175241

52
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116
all docs

116
docs citations

116
times ranked

5199
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of the electronic structure of anatase and rutile TiO ₂ single-crystal surfaces using resonant photoemission and x-ray absorption spectroscopy. <i>Physical Review B</i> , 2007, 75, .	3.2	249
2	Adsorption of organic molecules on rutile TiO ₂ and anatase TiO ₂ single crystal surfaces. <i>Chemical Society Reviews</i> , 2012, 41, 4207.	38.1	234
3	Nanostructured Aptamer-Functionalized Black Phosphorus Sensing Platform for Label-Free Detection of Myoglobin, a Cardiovascular Disease Biomarker. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 22860-22868.	8.0	208
4	Photoelectron Spectroscopy Study of Stoichiometric and Reduced Anatase TiO ₂ (101) Surfaces: The Effect of Subsurface Defects on Water Adsorption at Near-Ambient Pressures. <i>Journal of Physical Chemistry C</i> , 2015, 119, 13682-13690.	3.1	195
5	Dopamine Adsorption on Anatase TiO ₂ (101): A Photoemission and NEXAFS Spectroscopy Study. <i>Langmuir</i> , 2010, 26, 14548-14555.	3.5	85
6	Ambient-air-stable inorganic Cs ₂ Sn ₆ double perovskite thin films via aerosol-assisted chemical vapour deposition. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11205-11214.	10.3	85
7	In situ investigation of degradation at organometal halide perovskite surfaces by X-ray photoelectron spectroscopy at realistic water vapour pressure. <i>Chemical Communications</i> , 2017, 53, 5231-5234.	4.1	78
8	Surface characterization of zirconia dental implants. <i>Dental Materials</i> , 2010, 26, 295-305.	3.5	75
9	Preparation of Ligand-Free TiO ₂ (Anatase) Nanoparticles through a Nonaqueous Process and Their Surface Functionalization. <i>Langmuir</i> , 2008, 24, 6988-6997.	3.5	68
10	An Experimental Investigation of the Adsorption of a Phosphonic Acid on the Anatase TiO ₂ (101) Surface. <i>Journal of Physical Chemistry C</i> , 2016, 120, 1693-1700.	3.1	66
11	Oxygen-vacancy sites on TiO ₂ (100) 1 $\bar{1}$ –3 using surface core-level-shift photoelectron diffraction. <i>Physical Review B</i> , 1993, 47, 16056-16059.	3.2	61
12	Time-resolved surface photovoltage measurements at $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -type photovoltaic surfaces: Si(111) and ZnO(100). <i>Physical Review B</i> , 2013, 88, 085407.	3.2	61
13	Adsorbate-Induced Modification of Surface Electronic Structure: Pyrocatechol Adsorption on the Anatase TiO ₂ (101) and Rutile TiO ₂ (110) Surfaces. <i>Journal of Physical Chemistry C</i> , 2012, 116, 23515-23525.	3.1	57
14	Adsorption Studies of <i>p</i> -Aminobenzoic Acid on the Anatase TiO ₂ (101) Surface. <i>Langmuir</i> , 2014, 30, 12306-12314.	3.5	55
15	Organic template-assisted green synthesis of CoMoO ₄ nanomaterials for the investigation of energy storage properties. <i>RSC Advances</i> , 2020, 10, 8115-8129.	3.6	52
16	Corrosion protection of carbon steel by tetraphosphonates of systematically different molecular size. <i>Corrosion Science</i> , 2018, 145, 135-150.	6.6	51
17	Facile ZnO-based nanomaterial and its fabrication as a supercapacitor electrode: synthesis, characterization and electrochemical studies. <i>RSC Advances</i> , 2021, 11, 23374-23384.	3.6	50
18	Green synthesis of ZnO@Co ₃ O ₄ nanocomposite using facile foliar fuel and investigation of its electrochemical behaviour for supercapacitors. <i>New Journal of Chemistry</i> , 2020, 44, 18281-18292.	2.8	46

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19	Optical and electrical studies of CdS thin films with thickness variation. <i>Optik</i> , 2018, 158, 1558-1566.	2.9	44
20	Towards substrate engineering of graphene-silicon Schottky diode photodetectors. <i>Nanoscale</i> , 2018, 10, 3399-3409.	5.6	43
21	Resonant photoemission of single-crystal $R\text{BaCo}_2\text{O}_5$ ($R=\text{Gd, Dy}$). <i>Physical Review B</i> , 2004, 70, .	3.2	41
22	Electronic properties of the interface between p-CuI and anatase-phase n-TiO ₂ single crystal and nanoparticulate surfaces: A photoemission study. <i>Journal of Chemical Physics</i> , 2007, 127, 114703.	3.0	40
23	Exploring the versatility of liquid phase exfoliation: producing 2D nanosheets from talcum powder, cat litter and beach sand. <i>2D Materials</i> , 2017, 4, 025054.	4.4	39
24	Functionalization of MoO ₃ NiMoO ₄ nanocomposite using organic template for energy storage application. <i>Journal of Energy Storage</i> , 2020, 29, 101309.	8.1	38
25	Photoemission and HREELS study of K adsorption on TiO ₂ (100). <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 3569-3573.	1.7	37
26	Adsorption of phenylalanine on single crystal rutile TiO ₂ (110) surface. <i>Surface Science</i> , 2007, 601, 3828-3832.	1.9	37
27	Structure and Reactivity of a Model Oxide Supported Silver Nanocluster Catalyst Studied by Near Ambient Pressure X-ray Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21383-21389.	3.1	37
28	Modified sol-gel synthesis of Co ₃ O ₄ nanoparticles using organic template for electrochemical energy storage. <i>Energy</i> , 2021, 218, 119502.	8.8	36
29	Inelastic background modelling applied to hard X-ray photoelectron spectroscopy of deeply buried layers: A comparison of synchrotron and lab-based (9.25 ÅkeV) measurements. <i>Applied Surface Science</i> , 2021, 541, 148635.	6.1	35
30	Versailles Project on Advanced Materials and Standards Interlaboratory Study on Measuring the Thickness and Chemistry of Nanoparticle Coatings Using XPS and LEIS. <i>Journal of Physical Chemistry C</i> , 2016, 120, 24070-24079.	3.1	33
31	Effect of NiO on organic framework functionalized ZnO nanoparticles for energy storage application. <i>International Journal of Energy Research</i> , 2020, 44, 5259-5271.	4.5	29
32	Black phosphorus with near-superhydrophobic properties and long-term stability in aqueous media. <i>Chemical Communications</i> , 2018, 54, 3831-3834.	4.1	28
33	A molecular precursor route to quaternary chalcogenide CFTS (Cu ₂ FeSnS ₄) powders as potential solar absorber materials. <i>RSC Advances</i> , 2019, 9, 24146-24153.	3.6	28
34	Renewable Adsorbent for the Separation of Surfactant-Stabilized Oil in Water Emulsions Based on Nanostructured Sawdust. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18935-18942.	6.7	28
35	Adsorption of bi-isonicotinic acid on anatase TiO ₂ (101) and (001) studied by photoemission and NEXAFS spectroscopy. <i>Surface Science</i> , 2005, 592, 159-168.	1.9	27
36	Using Soft Polymer Template Engineering of Mesoporous TiO ₂ Scaffolds to Increase Perovskite Grain Size and Solar Cell Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18578-18589.	8.0	27

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37	Toward optimizing dental implant performance: Surface characterization of Ti and TiZr implant materials. <i>Dental Materials</i> , 2017, 33, 43-53.	3.5	26
38	Flexible nanoporous activated carbon for adsorption of organics from industrial effluents. <i>Nanoscale</i> , 2021, 13, 15311-15323.	5.6	26
39	Photoemission studies of single crystal CuO(100). <i>Journal of Physics Condensed Matter</i> , 1999, 11, 5021-5043.	1.8	24
40	Sustainable synthesis of organic framework-derived ZnO nanoparticles for fabrication of supercapacitor electrode. <i>Environmental Technology (United Kingdom)</i> , 2022, 43, 605-616.	2.2	24
41	Bioinspired scaffolds that sequester lead ions in physically damaged high efficiency perovskite solar cells. <i>Chemical Communications</i> , 2021, 57, 994-997.	4.1	24
42	Dual Functionalization of Liquid-Exfoliated Semiconducting 2H-MoS_2 with Lanthanide Complexes Bearing Magnetic and Luminescence Properties. <i>Advanced Functional Materials</i> , 2017, 27, 1703646.	14.9	23
43	Adsorption of H ₂ O on single crystal CuO. <i>Surface Science</i> , 1999, 436, 1-8.	1.9	22
44	An ex situ study of the adsorption of calcium phosphate from solution onto TiO ₂ (110) and Al ₂ O ₃ (0001). <i>Surface Science</i> , 2016, 646, 146-153.	1.9	22
45	Organic template-based ZnO embedded Mn ₃ O ₄ nanoparticles: synthesis and evaluation of their electrochemical properties towards clean energy generation. <i>RSC Advances</i> , 2020, 10, 9854-9867.	3.6	21
46	Effects of bioactive compounds on the morphology and surface chemistry of MoO ₃ /ZnMoO ₄ nanocomposite for supercapacitor. <i>Journal of Materials Science</i> , 2020, 55, 7743-7759.	3.7	21
47	Homologous alkyl side-chain diphosphonate inhibitors for the corrosion protection of carbon steels. <i>Chemical Engineering Journal</i> , 2021, 405, 126864.	12.7	21
48	Versailles Project on Advanced Materials and Standards interlaboratory study on intensity calibration for x-ray photoelectron spectroscopy instruments using low-density polyethylene. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, 063208.	2.1	21
49	Controlling the Thermoelectric Properties of Nb-Doped TiO ₂ Ceramics through Engineering Defect Structures. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 57326-57340.	8.0	21
50	Dynamics in next-generation solar cells: time-resolved surface photovoltage measurements of quantum dots chemically linked to ZnO (101̄,0). <i>Faraday Discussions</i> , 2014, 171, 275-298.	3.2	20
51	Design-controlled synthesis of IrO ₂ sub-monolayers on Au nanoflowers: marrying plasmonic and electrocatalytic properties. <i>Nanoscale</i> , 2020, 12, 12281-12291.	5.6	20
52	Electronic structure, reactivity and solid-state chemistry of La _{2-x} Sr _x Ni _{1-y} FeyO ₄ + δ . <i>Faraday Discussions</i> , 1996, 105, 337-354.	3.2	19
53	PEGylation of Nanosubstrates (Titania) with Multifunctional Reagents: At the Crossroads between Nanoparticles and Nanocomposites. <i>Langmuir</i> , 2012, 28, 11490-11501.	3.5	19
54	The effect of Eu doping on the growth, structure and red-ox activity of ceria nanocubes. <i>CrystEngComm</i> , 2018, 20, 1698-1704.	2.6	19

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55	Adsorption of Dopamine on Rutile TiO ₂ (110): A Photoemission and Near-Edge X-ray Absorption Fine Structure Study. <i>Langmuir</i> , 2014, 30, 8761-8769.	3.5	18
56	A bilayer TiO ₂ /Al ₂ O ₃ as the mesoporous scaffold for enhanced air stability of ambient-processed perovskite solar cells. <i>Materials Advances</i> , 2020, 1, 2057-2067.	5.4	18
57	Semi-conducting Ni/Zn nano-hybrids™ driven efficient electro-catalytic performance: fabrication, characterization, and electrochemical features™ elucidation. <i>Green Chemistry Letters and Reviews</i> , 2021, 14, 286-301.	4.7	18
58	Chemically-specific time-resolved surface photovoltage spectroscopy: Carrier dynamics at the interface of quantum dots attached to a metal oxide. <i>Surface Science</i> , 2015, 641, 320-325.	1.9	17
59	Ionic Liquid Ordering at an Oxide Surface. <i>ChemPhysChem</i> , 2016, 17, 3430-3434.	2.1	17
60	Evaluation of electrochemical properties for water splitting by NiO nano-cubes synthesized using <i>Olea ferruginea</i> Royle. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 40, 100753.	2.7	16
61	Role of Alkali Cations in Stabilizing Mixed-Cation Perovskites to Thermal Stress and Moisture Conditions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 43573-43586.	8.0	16
62	Phyto-inspired and scalable approach for the synthesis of PdO•2Mn ₂ O ₃ : a nano-material for application in water splitting electro-catalysis. <i>RSC Advances</i> , 2020, 10, 29961-29974.	3.6	15
63	Reduced electrical performance of Zn enriched ZnTe nano-inclusion semiconductors thin films for buffer layer in solar cells. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 255503.	2.8	14
64	Surface Engineering of Ceramic Nanomaterials for Separation of Oil/Water Mixtures. <i>Frontiers in Chemistry</i> , 2020, 8, 578.	3.6	14
65	Electronic structure and surface reactivity of La _{1-x} Sr _x CoO ₃ . <i>Faraday Discussions</i> , 1999, 114, 407-420.	3.2	13
66	Resonance photoemission of LaCoO ₃ (111) and La _{0.9} Sr _{0.1} CoO ₃ (111). <i>Journal of Physics Condensed Matter</i> , 2000, 12, 9259-9279.	1.8	13
67	A one-step laser process for rapid manufacture of mesoscopic perovskite solar cells prepared under high relative humidity. <i>Sustainable Energy and Fuels</i> , 2018, 2, 1216-1224.	4.9	13
68	Air-Stable Methylammonium Lead Iodide Perovskite Thin Films Fabricated via Aerosol-Assisted Chemical Vapor Deposition from a Pseudohalide Pb(SCN) ₂ Precursor. <i>ACS Applied Energy Materials</i> , 2019, 2, 6012-6022.	5.1	13
69	Rapid and Low-Temperature Molecular Precursor Approach toward Ternary Layered Metal Chalcogenides and Oxides: Mo _{1-x} W _x S ₂ and Mo _{1-x} W _x O ₃ Alloys (0 ≤ x ≤ 1). <i>Chemistry of Materials</i> , 2020, 32, 7895-7907.	6.7	13
70	Adsorption and stability of malonic acid on rutile TiO ₂ (110), studied by near edge X-ray absorption fine structure and photoelectron spectroscopy. <i>Surface Science</i> , 2014, 626, 14-20.	1.9	11
71	Role of Ag ¹⁺ substitutional defects on the electronic and optical properties of n-type CdS thin films semiconductor for sustainable and stable window layer in solar cells technology. <i>Optical Materials</i> , 2018, 85, 143-152.	3.6	11
72	Adsorption site, orientation and alignment of NO adsorbed on Au(100) using 3D-velocity map imaging, X-ray photoelectron spectroscopy and density functional theory. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 10939-10946.	2.8	11

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73	Impact of halide additives on green antisolvent and high-humidity processed perovskite solar cells. <i>Applied Surface Science</i> , 2021, 536, 147949.	6.1	11
74	Laser-Assisted Ultrafast Fabrication of Crystalline Ta-Doped TiO ₂ for High-Humidity-Processed Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 15141-15153.	8.0	11
75	Electrochemical energy storage by nanosized MoO ₃ /PdO material: Investigation of its structural, optical and electrochemical properties for supercapacitor. <i>Journal of Energy Storage</i> , 2021, 36, 102447.	8.1	10
76	Near-Ambient Pressure XPS and NEXAFS Study of a Superbasic Ionic Liquid with CO ₂ . <i>Journal of Physical Chemistry C</i> , 2021, 125, 22778-22785.	3.1	10
77	Biomimetic ZrO ₂ @ PdO nanocomposites: fabrication, characterization, and water splitting potential exploration. <i>International Journal of Energy Research</i> , 2022, 46, 8516-8526.	4.5	10
78	Electrochemical trapping of meta-stable NiO consolidated ZnO/PdO by biomimetic provenance for the employment of clean energy generation. <i>Materials Science in Semiconductor Processing</i> , 2022, 150, 106867.	4.0	10
79	Multitechnique characterization of CPTi surfaces after electro discharge machining (EDM). <i>Clinical Oral Investigations</i> , 2014, 18, 67-75.	3.0	9
80	Wet chemically prepared rutile TiO ₂ (110) and TiO ₂ (011): Substrate preparation for surface studies under non-UHV conditions. <i>Surface Science</i> , 2014, 630, 41-45.	1.9	9
81	Pyrocatechol as a surface capping molecule on rutile TiO ₂ (110). <i>Surface Science</i> , 2012, 606, 273-277.	1.9	8
82	Water-induced reordering in ultrathin ionic liquid films. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 334003.	1.8	8
83	Chemical vapour deposition of chromium-doped tungsten disulphide thin films on glass and steel substrates from molecular precursors. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9537-9544.	5.5	8
84	Ultra-Low-Power Current Sensor Utilizing Magnetoelectric Nanowires. <i>IEEE Sensors Journal</i> , 2020, 20, 5139-5145.	4.7	8
85	Surface characterization of SLActive dental implants. <i>The European Journal of Esthetic Dentistry: Official Journal of the European Academy of Esthetic Dentistry</i> , 2012, 7, 72-92.	0.3	8
86	Large single crystals of LnBaCo ₂ O _{5.5} : Initial nucleation, growth and study. <i>Journal of Crystal Growth</i> , 2008, 310, 1867-1874.	1.5	7
87	Adsorption and Photocatalytic Degradation of 3-Fluoroaniline on Anatase TiO ₂ (101): A Photoemission and Near-Edge X-ray Absorption Fine Structure Study. <i>Journal of Physical Chemistry C</i> , 2014, 118, 2028-2036.	3.1	7
88	Interaction of a tripeptide with titania surfaces: RGD adsorption on rutile TiO ₂ (110) and model dental implant surfaces. <i>Materials Science and Engineering C</i> , 2019, 105, 110030.	7.3	7
89	Ultrafast and Scalable Laser-Induced Crystallization of Titanium Dioxide Films for Planar Perovskite Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2000562.	5.8	7
90	Synthesis and analysis of ZnO@CoMoO ₄ incorporated organic compounds for efficient degradation of azo dye pollutants under dark ambient conditions. <i>Applied Organometallic Chemistry</i> , 2020, 34, e5733.	3.5	6

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91	Sustainable hydrothermal synthesis of cobalt-nickel nanomaterial for supercapacitor using green stabilizing agents. <i>International Journal of Energy Research</i> , 2022, 46, 4599-4608.	4.5	6
92	Soft X-ray photon stimulated ion desorption from SrTiO ₃ (100)-H ₂ O. <i>Surface Science</i> , 1994, 307-309, 355-359.	1.9	5
93	Electronic structure and reactivity of La _{1-x} Sr _x Co _{1-y} Cu _y O ₃ and La _{2-x} Sr _x Co _{1-y} Cu _y O ₄ . <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1999, 101-103, 765-769.	1.7	5
94	Facile synthesis of ZnO-CoMoO ₄ nanocomposite using bio-organic fuel for energy storage application. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 8460-8474.	2.2	5
95	Preparation of Organo-Stabilized Mn ₃ O ₄ Nanostructures as an Electro-Catalyst for Clean Energy Generation. <i>Journal of Electronic Materials</i> , 2021, 50, 5150-5160.	2.2	5
96	High efficiency semitransparent perovskite solar cells containing 2D nanopore arrays deposited in a single step. <i>Journal of Materials Chemistry A</i> , 2022, 10, 10227-10241.	10.3	5
97	Observation of UV-induced Auger features in catechol adsorbed on anatase TiO ₂ (101) single crystal surface. <i>Applied Physics Letters</i> , 2012, 100, 171603.	3.3	4
98	Reversible Reaction of CO ₂ with Superbasic Ionic Liquid [P ₆₆₆₁₄][benzim] Studied with in Situ Photoelectron Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7134-7141.	3.1	4
99	Angle-resolved photoemission of CuO (100). <i>Surface Science</i> , 1997, 377-379, 256-260.	1.9	3
100	A photoemission study to confirm the second order nature of anomalous O 2s resonant enhancement of Bi ₂ Sr ₂ CaCu ₂ O ₈ (001) fermi level states. <i>Physica C: Superconductivity and Its Applications</i> , 1991, 185-189, 1047-1048.	1.2	2
101	ELECTRONIC STRUCTURE AND REACTIVITY OF TM-DOPED La _{1-x} Sr _x CoO ₃ (TM = Ni, Fe) CATALYSTS. <i>Surface Review and Letters</i> , 2002, 09, 277-283.	1.1	2
102	Evaluation of electrochemical properties of organic template assisted PdO incorporated NiO for H ₂ /O ₂ evolution. <i>Microchemical Journal</i> , 2020, 158, 105282.	4.5	2
103	Phytogenic synthesis and enhanced photocatalytic properties of ZnO/Co ₃ O ₄ junction: biomimetic water remediators. <i>Ionics</i> , 2022, 28, 1999.	2.4	2
104	Improving the Efficiency, Stability, and Adhesion of Perovskite Solar Cells Using Nanogel Additive Engineering. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 58640-58651.	8.0	2
105	Angle-resolved photoemission of Y-doped Bi ₂ Sr ₂ CaCu ₂ O ₈ + δ . <i>Surface Science</i> , 1996, 352-354, 788-792.	1.9	1
106	Resonant photoemission of transition metal perovskites. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2005, 144-147, 777-782.	1.7	1
107	Synthesis of facile ZnO : NiO-PdO-Pd nanomaterial by organic fuel: Environmentally benign electrode material for energy storage. <i>International Journal of Energy Research</i> , 2021, 45, 16284-16293.	4.5	1
108	4-Mercaptobenzoic Acid Adsorption on TiO ₂ Anatase (101) and TiO ₂ Rutile (110) Surfaces. <i>Surfaces</i> , 2022, 5, 238-250.	2.3	1

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109	Orientation of o-nitrophenol adsorbed on LaCoO ₃ (111). Surface Science, 2000, 454-456, 131-136.	1.9	0
110	Fundamental Interactions at Oxide Surfaces: Understanding Novel Dye-sensitised Solar Cells. , 2009, , .		0
111	Comparison of the electronic structure of LnBaCo ₂ O _{5+δ} (Ln=Gd, Dy; Ln-112) and LnBaCo ₄ O ₇ (Ln=Yb; Tj ETQq1 1 0.784314 rgBT /O Related Phenomena, 2011, 184, 227-231.	1.7	0
112	Formation and Characterization of Model Iron Sulfide Scales with Disulfides and Thiols on Steel Pipeline Materials by an Aerosol-Assisted Chemical Vapor Method. Energy & Fuels, 2017, 31, 2496-2500.	5.1	0
113	Preliminary study of hydroxyapatite particles air abrasive blasting on Mg-4Zn-0.3Ca surface. AIP Conference Proceedings, 2019, , .	0.4	0
114	Introducing X-ray photoelectron spectroscopy for corrosion studies: A tool for elucidating interfacial composition and chemistry. , 2022, , 723-745.		0