

# Mustafa Urgan

## List of Publications by Year in descending order

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133  
papers

2,709  
citations

196777

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136  
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136  
docs citations

136  
times ranked

3234  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anodic behavior of nickel in sub-molten KOH and its relevance for the production of electroactive nickel oxides. <i>Surfaces and Interfaces</i> , 2022, 31, 101963.	1.5	4
2	Tic production on steel with cathodic arc based -diffusion process. <i>Surface Engineering</i> , 2022, 38, 150-157.	1.1	1
3	Biocompatibility and Mechanical Stability of Nanopatterned Titanium Films on Stainless Steel Vascular Stents. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4595.	1.8	2
4	Ab-initio calculation of point defect equilibria during heat treatment: Nitrogen, hydrogen, and silicon doped diamond. <i>Diamond and Related Materials</i> , 2022, 126, 109072.	1.8	8
5	A kinetic model for determining morphology transitions and growth kinetics of titania nanotubes during anodization of titanium in ethylene glycol based electrolytes. <i>Surface and Coatings Technology</i> , 2021, 409, 126840.	2.2	14
6	Understanding Corrosion Morphology of Duplex Stainless Steel Wire in Chloride Electrolyte. <i>Corrosion and Materials Degradation</i> , 2021, 2, 397-411.	1.0	10
7	Effect of high-voltage pulse bias on the stress and morphology of CA-PVD TiN coatings. <i>Surface Engineering</i> , 2020, 36, 13-21.	1.1	3
8	Contribution of polyaniline coating to the stability and performance of nickel hydroxide based electroactive materials. <i>International Journal of Energy Research</i> , 2020, 44, 11691-11701.	2.2	1
9	Influence of tantalum pentoxide secondary phase on surface features and mechanical properties of hydroxyapatite coating on NiTi alloy produced by electrophoretic deposition. <i>Surface and Coatings Technology</i> , 2020, 386, 125458.	2.2	31
10	On the Erosive Wear of Carbon Fiber-Reinforced Epoxy Composite in the Olive Oil Extraction Process. <i>Journal of Tribology</i> , 2020, 142, .	1.0	1
11	Aluminising of steel with a cathodic arc plasma based method. <i>Transactions of the Institute of Metal Finishing</i> , 2019, 97, 140-145.	0.6	2
12	Biomechanical compatibility and electrochemical stability of HA/Ta2O5 nanocomposite coating produced by electrophoretic deposition on superelastic NiTi alloy. <i>Journal of Alloys and Compounds</i> , 2019, 799, 193-204.	2.8	22
13	Effect of Ta2O5 content on the osseointegration and cytotoxicity behaviors in hydroxyapatite-Ta2O5 coatings applied by EPD on superelastic NiTi alloys. <i>Materials Science and Engineering C</i> , 2019, 102, 683-695.	3.8	42
14	Self-assembling antimicrobial peptides on nanotubular titanium surfaces coated with calcium phosphate for local therapy. <i>Materials Science and Engineering C</i> , 2019, 94, 333-343.	3.8	40
15	Freestanding SnO2 films produced with anodic polarization in acidic media containing colloidal tin hydroxides. <i>Materials Chemistry and Physics</i> , 2019, 221, 263-271.	2.0	6
16	The role of superimposing pulse bias voltage on DC bias on the macroparticle attachment and structure of TiAlN coatings produced with CA-PVD. <i>Surface and Coatings Technology</i> , 2018, 350, 1050-1057.	2.2	15
17	The corrosion protection ability of TiAlN coatings produced with CA-PVD under superimposed pulse bias. <i>Surface and Coatings Technology</i> , 2018, 346, 1-8.	2.2	31
18	Tribological Study of Fe-W-P Electrodeposited Coating on 316 L Stainless Steel. <i>Journal of Tribology</i> , 2018, 140, .	1.0	7

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19	Magnesium doping on TiN coatings affects mesenchymal stem cell differentiation and proliferation positively in a dose-dependent manner. <i>Bio-Medical Materials and Engineering</i> , 2018, 29, 427-438.	0.4	13
20	Fast synthesis of turbostratic carbon thin coating by cathodic plasma electrolysis. <i>Thin Solid Films</i> , 2017, 621, 253-258.	0.8	12
21	Effect of process parameters on coating composition of cathodic-plasma-electrolysis-treated copper. <i>Bulletin of Materials Science</i> , 2017, 40, 355-365.	0.8	5
22	Production and Characterization of Electroactive Nickel Oxides Grown on Nickel Foam by Anodic Oxidation in KOH Melts for Supercapacitor Applications. <i>MRS Advances</i> , 2017, 2, 3237-3247.	0.5	2
23	Effect of Magnesium and Osteoblast Cell Presence on Hydroxyapatite Formation on (Ti,Mg)N Thin Film Coatings. <i>Jom</i> , 2017, 69, 1195-1205.	0.9	8
24	The role of droplets on the cavitation erosion damage of TiN coatings produced with cathodic arc physical vapor deposition. <i>Surface and Coatings Technology</i> , 2017, 322, 211-217.	2.2	47
25	Experimental and modeling study on the role of Ar addition to the working gas on the development of intrinsic stress in TiN coatings produced by filtered vacuum-arc plasma. <i>Thin Solid Films</i> , 2017, 642, 207-213.	0.8	6
26	Switching dynamics of morphology-structure in chemically deposited carbon films – A new insight. <i>Carbon</i> , 2017, 122, 653-663.	5.4	22
27	Raman spectroscopy of thin DLC film deposited by plasma electrolysis process. <i>Surface and Coatings Technology</i> , 2017, 309, 945-950.	2.2	28
28	Structure and properties of Ti-Al-Y-N coatings deposited from filtered cathodic-arc plasma in gas Ar and N <sub>2</sub> mixture. , 2017, , .		0
29	Orientation dependent tribological behavior of TiN coatings. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 134009.	0.7	8
30	Structure and properties of TiN coatings deposited by filtered vacuum-arc plasma in the gas mixture N <sub>2</sub> with Ar. , 2016, , .		0
31	Role of different plasma gases on the surface chemistry and wettability of RF plasma treated stainless steel. <i>Vacuum</i> , 2016, 129, 63-73.	1.6	29
32	Wear protection potential of TiN coatings for 304 stainless steels used in rotating parts during olive oil extraction. <i>Surface and Coatings Technology</i> , 2016, 304, 560-566.	2.2	27
33	On the erosive wear of 304 L stainless steel caused by olive seed particles impact: Modeling and experiments. <i>Tribology International</i> , 2016, 102, 608-619.	3.0	20
34	Effects of DC Stray Current on Concrete Permeability. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, .	1.3	19
35	Corrosion behaviour of magnesium AZ31 sheet produced by twin roll casting. <i>Corrosion Engineering Science and Technology</i> , 2015, 50, 380-389.	0.7	10
36	Protein-mediated hydroxyapatite composite layer formation on nanotubular titania. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2015, 4, 155-165.	0.7	6

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37	Photocatalytic Antibacterial Activity of Mixed-Phase TiO <sub>2</sub> Nanocomposite Thin Films against <i>Aggregatibacter actinomycetemcomitans</i> . <i>BioMed Research International</i> , 2015, 2015, 1-10.	0.9	12
38	Behavior of mammalian cells on magnesium substituted bare and hydroxyapatite deposited (Ti,Mg)N coatings. <i>New Biotechnology</i> , 2015, 32, 747-755.	2.4	13
39	XPS investigations of tribolayers formed on TiN and (Ti,Re)N coatings. <i>Applied Surface Science</i> , 2015, 328, 255-261.	3.1	105
40	Oxidation behavior of electroless Ni-P, Ni-B and Ni-W-B coatings deposited on steel substrates. <i>Surface and Coatings Technology</i> , 2015, 265, 46-52.	2.2	70
41	Improvement in electrical and photovoltaic properties of a-Si/c-Si heterojunction with slanted nano-columnar amorphous silicon thin films for photovoltaic applications. <i>Current Applied Physics</i> , 2015, 15, 511-519.	1.1	4
42	Electrochemically designed interfaces: Hydroxyapatite coated macro-mesoporous titania surfaces. <i>Applied Surface Science</i> , 2015, 350, 62-68.	3.1	17
43	Tribological performance of TiN coatings deposited on 304L stainless steel used for olive-oil extraction. <i>Wear</i> , 2015, 342-343, 77-84.	1.5	34
44	Role of aluminum doping on phase transformations in nanoporous titania anodic oxides. <i>Journal of Alloys and Compounds</i> , 2015, 646, 719-726.	2.8	3
45	Hydrogen gas sensing properties of nanoporous Al-doped titania. <i>Sensors and Actuators B: Chemical</i> , 2014, 204, 109-118.	4.0	22
46	Investigation of structural and electrical properties of p-CuPc/c-Si and p-CuPc/a-Si/c-Si hybrid photodiodes prepared by CSP technique. <i>Microelectronic Engineering</i> , 2014, 126, 184-190.	1.1	19
47	Effect of sodium sulfate on the characteristics and corrosion behavior of high phosphorus Ni-P electroless coatings. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2014, 65, 926-930.	0.8	2
48	A Simple Method for the Production of AAO Templates for DC Electrodeposition of Nanostructures. <i>ECS Electrochemistry Letters</i> , 2014, 3, D46-D49.	1.9	9
49	Antibacterial Activity of As-Annealed TiO <sub>2</sub> Nanotubes Doped with Ag Nanoparticles against Periodontal Pathogens. <i>Bioinorganic Chemistry and Applications</i> , 2014, 2014, 1-8.	1.8	18
50	Carbonated hydroxyapatite deposition at physiological temperature on ordered titanium oxide nanotubes using pulsed electrochemistry. <i>Ceramics International</i> , 2014, 40, 15479-15487.	2.3	27
51	Mechanical and frictional behaviour of nano-porous anodised aluminium. <i>Materials Chemistry and Physics</i> , 2014, 148, 887-895.	2.0	38
52	Effects of electrochemical boriding process parameters on the formation of titanium borides. <i>Surface Engineering and Applied Electrochemistry</i> , 2013, 49, 168-175.	0.3	7
53	Surface morphology, nano-indentation and TEM analysis of tantalum carbide-graphite composite film synthesized by hot-filament chemical vapor deposition. <i>Materials Chemistry and Physics</i> , 2013, 138, 944-950.	2.0	18
54	Structure and properties of TiN coatings produced with PIII&D technique using high efficiency rectilinear filter cathodic arc plasma. <i>Surface and Coatings Technology</i> , 2013, 236, 332-340.	2.2	26

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55	Magnesium substituted hydroxyapatite formation on (Ti,Mg)N coatings produced by cathodic arc PVD technique. Materials Science and Engineering C, 2013, 33, 4337-4342.	3.8	32
56	Structure and photovoltaic properties of Ag/p-CuPc/a-Si/c-Si/Ag organic-inorganic hybrid heterojunction fabricated by chemical spray pyrolysis technique. Microelectronic Engineering, 2013, 108, 150-157.	1.1	17
57	Deposition of Diamond onto a Titanium Substrate using a Molybdenum Intermediate Layer. Chemical Vapor Deposition, 2013, 19, 284-289.	1.4	3
58	Novel investigation on tribological properties of Ni-P-Ag-Al <sub>2</sub> O <sub>3</sub> hybrid nanocomposite coatings. Tribology International, 2013, 62, 110-116.	3.0	21
59	The influence of Er <sup>3+</sup> doping on the structural and optical properties of CeO <sub>2</sub> thin films grown by PED. Applied Surface Science, 2013, 285, 409-416.	3.1	16
60	Regular growth combined with lateral etching in diamond deposited over silicon substrate by using hot filament chemical vapor deposition technique. Applied Surface Science, 2013, 273, 730-734.	3.1	2
61	Addressable self-immobilization of lactate dehydrogenase across multiple length scales. Biotechnology Journal, 2013, 8, 262-272.	1.8	13
62	Structural and photovoltaic properties of a-Si (SNc)/c-Si heterojunction fabricated by EBPVD technique. , 2013, , .		1
63	Investigation of structural and electrical properties of flat a-Si/c-Si heterostructure fabricated by EBPVD technique. , 2013, , .		0
64	High temperature tribology of nanocrystalline Ni-P-Ag coating. Surface Engineering, 2013, 29, 306-311.	1.1	27
65	Evaluation of structure and mechanical properties of Ni-P-Al <sub>2</sub> O <sub>3</sub> nanocomposite coatings. Journal of Composite Materials, 2013, 47, 3323-3329.	1.2	13
66	Effect of heat treatment on tribocorrosion of nanostructure Ni-P coatings. Surface Engineering, 2013, 29, 671-676.	1.1	8
67	High temperature friction and wear behaviour of Ni-P-Ag-Al <sub>2</sub> O <sub>3</sub> hybrid nanocomposite coating. Transactions of the Institute of Metal Finishing, 2013, 91, 207-213.	0.6	26
68	High purity diamond films synthesised by chemical vapour deposition. Surface Engineering, 2012, 28, 791-795.	1.1	8
69	Effect of solid surface charge on the binding behaviour of a metal-binding peptide. Journal of the Royal Society Interface, 2012, 9, 2688-2695.	1.5	14
70	Tantalum carbide-graphite composite film synthesized by hot-filament chemical vapor deposition. Pure and Applied Chemistry, 2012, 84, 2499-2506.	0.9	7
71	Generation of a Surface Pattern Having Conical Surface Features by Anodic Polarization of Aluminum. Journal of the Electrochemical Society, 2012, 159, C411-C415.	1.3	2
72	Growth of in situ multilayer diamond films by varying substrate-filament distance in hot-filament chemical vapor deposition. Journal of Materials Research, 2012, 27, 3123-3129.	1.2	9

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73	Improvement of gas sensing performance of TiO <sub>2</sub> towards NO <sub>2</sub> by nano-tubular structuring. <i>Sensors and Actuators B: Chemical</i> , 2012, 169, 151-160.	4.0	53
74	Novel investigation on nanostructure Ni-P-Ag composite coatings. <i>Applied Surface Science</i> , 2012, 261, 155-158.	3.1	12
75	Effect of surface treatment on hot-filament chemical vapour deposition grown diamond films. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 045301.	1.3	11
76	A novel free-standing nanowire substrate with surface enhanced Raman scattering (SERS) activity. <i>Materials Letters</i> , 2012, 67, 387-389.	1.3	13
77	Simultaneous growth of diamond and nanostructured graphite thin films by hot-filament chemical vapor deposition. <i>Solid State Sciences</i> , 2012, 14, 150-154.	1.5	9
78	Diamond films grown without seeding treatment and bias by hot-filament CVD system. <i>Solid State Sciences</i> , 2012, 14, 540-544.	1.5	4
79	Tantalum carbide films synthesized by hot-filament chemical vapor deposition technique. <i>Surface and Coatings Technology</i> , 2012, 206, 2833-2838.	2.2	37
80	Production of free standing Cu-Al intermetallics by cathodic arc plasma treatment. <i>Intermetallics</i> , 2011, 19, 1817-1822.	1.8	10
81	Effect of cathodic arc plasma treatment on the properties of WC-Co based hard metals. <i>Surface and Coatings Technology</i> , 2011, 206, 1759-1764.	2.2	3
82	High-Temperature Sliding Wear Testing of Cathodic Arc Physical Vapor Deposition AlTiN- and AlTiON-Coated Hot Work Tool Steels. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 3316-3322.	1.1	5
83	Surface morphology, growth rate and quality of diamond films synthesized in hot filament CVD system under various methane concentrations. <i>Applied Surface Science</i> , 2011, 257, 8420-8426.	3.1	80
84	Electrochemical boriding of titanium for improved mechanical properties. <i>Surface and Coatings Technology</i> , 2010, 204, 3935-3939.	2.2	74
85	PVD coated hot work tool steels for tooling applications in semi-solid processing of steels. <i>International Journal of Material Forming</i> , 2010, 3, 747-750.	0.9	8
86	Transport and storage properties of CrSi <sub>2</sub> /Si junctions made using the CAPVD technique. <i>Materials Science in Semiconductor Processing</i> , 2010, 13, 257-266.	1.9	3
87	Modification of copper surfaces with cathodic arc aluminum plasma. <i>Surface and Coatings Technology</i> , 2010, 205, 540-544.	2.2	7
88	Bioassay-guided Isolation of Antibacterial and Cytotoxic Compounds from the Mesophilic Actinomycete M-33-5. <i>Natural Product Communications</i> , 2010, 5, 1934578X1000500.	0.2	2
89	Wear Characteristics of NiTi/Al6061 Short Fiber Metal Matrix Composite Reinforced With SiC Particulates. <i>Journal of Tribology</i> , 2010, 132, .	1.0	10
90	Design of Novel Nanocomposite Nitride Coatings for Severe Tribological Applications. , 2010, , .		0

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91	Excess Capacitance Due to Minority Carrier Injection in CrSi <sub>2</sub> /p-Type Crystalline Si Isotype Junction. Japanese Journal of Applied Physics, 2010, 49, 091302.	0.8	2
92	Effect of titanium surface properties on electrochemically induced biomineralization. , 2010, , .		2
93	Alternative Approach for Determination of Energy Band Gap of Semiconductors Through Electrical Analysis. , 2010, , .		1
94	The effect of oxygen content on the temperature dependent tribological behavior of CrO <sub>x</sub> /N coatings. Surface and Coatings Technology, 2009, 203, 2272-2277.	2.2	24
95	Physical elution in phage display selection of inorganic-binding peptides. Materials Science and Engineering C, 2009, 29, 14-19.	3.8	23
96	Surface modification of iron containing aluminum alloys by treatment with copper plasma produced with cathodic arc. Surface and Coatings Technology, 2009, 204, 872-877.	2.2	7
97	Determination of sodium migration in sol-gel deposited titania films on soda-lime glass with r.f. glow discharge optical emission spectroscopy. Applied Surface Science, 2009, 255, 4001-4004.	3.1	13
98	A method for polyaniline coatings on solid polystyrene surfaces and electroless copper deposition. Surface and Coatings Technology, 2008, 202, 4176-4182.	2.2	18
99	Synthesis and optical properties of CeO <sub>2</sub> nanocrystalline films grown by pulsed electron beam deposition. Journal of Materials Science, 2008, 43, 5102-5108.	1.7	58
100	Comparative tribological behaviors of TiN, CrN and MoNCu nanocomposite coatings. Tribology International, 2008, 41, 49-59.	3.0	155
101	Effect of ion beam modifications on the surface and structural properties of $\gamma$ -FeSi <sub>2</sub> thin films. Journal Physics D: Applied Physics, 2007, 40, 5995-5999.	1.3	1
102	Surface characterization of $\gamma$ -FeSi <sub>2</sub> /Si heterojunctions prepared by magnetron sputtering. Surface and Coatings Technology, 2007, 201, 8373-8376.	2.2	6
103	Effect of copper addition on the temperature dependent reciprocating wear behaviour of CrN coatings. Surface and Coatings Technology, 2007, 202, 866-870.	2.2	35
104	Characterization of nano-composite TiN/Sb coating produced with hybrid physical vapor deposition system. Thin Solid Films, 2007, 515, 3675-3680.	0.8	5
105	Synthesis of $\gamma$ -FeSi <sub>2</sub> /Si heterojunctions for photovoltaic applications by unbalanced magnetron sputtering. Thin Solid Films, 2007, 516, 13-16.	0.8	30
106	Measurement of residual stresses by X-ray diffraction techniques in MoN and Mo <sub>2</sub> N coatings deposited by arc PVD on high-speed steel substrate. Surface and Coatings Technology, 2005, 190, 238-243.	2.2	54
107	Scuffing Resistance of Laser Textured Surfaces. , 2005, , 467.		0
108	Photocatalytic Bactericidal Effect of TiO <sub>2</sub> Thin Films Produced by Cathodic Arc Deposition Method. Key Engineering Materials, 2004, 254-256, 463-466.	0.4	3

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109	Characterization of Co-Based Metal Oxide Films on Glass. Key Engineering Materials, 2004, 264-268, 525-528.	0.4	0
110	Photoactive TiO <sub>2</sub> Coatings on Metal Substrates by Cathodic Arc Deposition Technique. Key Engineering Materials, 2004, 264-268, 549-552.	0.4	3
111	Characterization of Mo<sub>2</sub>/sub>N/Ag Nanocomposite Coatings Produced by Magnetron Sputtering. Key Engineering Materials, 2004, 264-268, 489-492.	0.4	23
112	Comparison of reciprocating wear behaviour of electrolytic hard chrome and arc-PVD CrN coatings. Wear, 2004, 256, 832-839.	1.5	42
113	Effect of nitrogen pressure, bias voltage and substrate temperature on the phase structure of Moâ€N coatings produced by cathodic arc PVD. Surface and Coatings Technology, 2003, 167, 77-82.	2.2	89
114	Oxidation behavior of molybdenum nitride coatings. Surface and Coatings Technology, 2003, 174-175, 713-719.	2.2	75
115	Corrosion characteristics of plain carbon steel coated with TiN and ZrN under high-flux ion bombardment. Surface and Coatings Technology, 2002, 160, 82-86.	2.2	23
116	Effect of cathodic polarisation on corrosion fatigue behaviour of ion nitrided AISI 4140 steel. International Journal of Fatigue, 2002, 24, 537-543.	2.8	11
117	Lower temperatures for the preparation of thinner zeolite A coatings. Microporous and Mesoporous Materials, 2001, 47, 1-14.	2.2	22
118	Preparation of zeolite coatings by direct heating of the substrates. Microporous and Mesoporous Materials, 1999, 32, 331-343.	2.2	74
119	Stripping of CrN from CrN-coated high-speed steels. Surface and Coatings Technology, 1999, 113, 31-35.	2.2	23
120	Microstructure and properties of nitride and diboride hard coatings deposited under intense mild-energy ion bombardment. Surface and Coatings Technology, 1999, 116-119, 133-140.	2.2	70
121	OPTIMIZATION OF ARC-PVD TiN COATING PROCESS PARAMETERS BY TAGUCHI TECHNIQUE. Quality Engineering, 1999, 12, 29-36.	0.7	10
122	Inhibition of stress corrosion cracking of aisi 304stainless steel by molybdate ions at elevated temperaturesunder salt crust. Corrosion Science, 1999, 41, 1289-1303.	3.0	12
123	Identification of cracks generated by indentation experiments in hard-coating systems. Surface and Coatings Technology, 1998, 107, 65-75.	2.2	15
124	The Effect of Molybdate Ions on A.C. Sulphuric Acid Anodized 6063 Aluminium Alloys. Transactions of the Institute of Metal Finishing, 1998, 76, 179-182.	0.6	2
125	The effect of heating on corrosion behavior of TiN- and CrN-coated steels. Surface and Coatings Technology, 1997, 96, 236-244.	2.2	44
126	The effect of the sputter cleaning of steel substrates with neutral molecule source on the adhesion of TiN films. Surface and Coatings Technology, 1997, 97, 488-491.	2.2	6



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127	Characterization of molybdenum nitride coatings produced by arc-PVD technique. Surface and Coatings Technology, 1997, 94-95, 501-506.	2.2	67
128	New accelerated test for studying the susceptibility of stainless steels to chloride stress corrosion cracking under salt crust. Corrosion Science, 1996, 38, 2043-2048.	3.0	6
129	The effect of heat treatment on corrosion behavior of laser surface melted 304L stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1995, 203, 324-331.	2.6	32
130	Corrosion of zirconium boride and zirconium boron nitride coated steels. Surface and Coatings Technology, 1995, 71, 60-66.	2.2	45
131	A modified version of nielsen's decoration technique. Corrosion Science, 1992, 33, 1179-1181.	3.0	4
132	The effect of molybdate ions on the temperature dependent pitting potential of austenitic stainless steels in neutral chloride solutions. Corrosion Science, 1991, 32, 835-852.	3.0	26
133	ESCA measurements of films on molybdenum formed in the passive and transpassive region. Corrosion Science, 1990, 30, 377-391.	3.0	38