Mustafa Urgen

List of Publications by Year
in descending order

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133	2,709	172457	233421
papers	citations	29	45
		h-index	g-index

136	136	136	2950
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Anodic behavior of nickel in sub-molten KOH and its relevance for the production of electroactive nickel oxides. Surfaces and Interfaces, 2022, 31, 101963.	3.0	4
2	Tic production on steel with cathodic arc based -diffusion process. Surface Engineering, 2022, 38, 150-157.	2.2	1
3	Biocompatibility and Mechanical Stability of Nanopatterned Titanium Films on Stainless Steel Vascular Stents. International Journal of Molecular Sciences, 2022, 23, 4595.	4.1	2
4	Ab-initio calculation of point defect equilibria during heat treatment: Nitrogen, hydrogen, and silicon doped diamond. Diamond and Related Materials, 2022, 126, 109072.	3.9	8
5	A kinetic model for determining morphology transitions and growth kinetics of titania nanotubes during anodization of titanium in ethylene glycol based electrolytes. Surface and Coatings Technology, 2021, 409, 126840.	4.8	14
6	Understanding Corrosion Morphology of Duplex Stainless Steel Wire in Chloride Electrolyte. Corrosion and Materials Degradation, 2021, 2, 397-411.	2.4	10
7	Effect of high-voltage pulse bias on the stress and morphology of CA-PVD TiN coatings. Surface Engineering, 2020, 36, 13-21.	2.2	3
8	Contribution of polyaniline coating to the stability and performance of nickel hydroxide based electroactive materials. International Journal of Energy Research, 2020, 44, 11691-11701.	4.5	1
9	Influence of tantalum pentoxide secondary phase on surface features and mechanical properties of hydroxyapatite coating on NiTi alloy produced by electrophoretic deposition. Surface and Coatings Technology, 2020, 386, 125458.	4.8	31
10	On the Erosive Wear of Carbon Fiber-Reinforced Epoxy Composite in the Olive Oil Extraction Process. Journal of Tribology, 2020, 142, .	1.9	1
11	Aluminising of steel with a cathodic arc plasma based method. Transactions of the Institute of Metal Finishing, 2019, 97, 140-145.	1.3	2
12	Biomechanical compatibility and electrochemical stability of HA/Ta2O5 nanocomposite coating produced by electrophoretic deposition on superelastic NiTi alloy. Journal of Alloys and Compounds, 2019, 799, 193-204.	5.5	22
13	Effect of Ta2O5 content on the osseointegration and cytotoxicity behaviors in hydroxyapatite-Ta2O5 coatings applied by EPD on superelastic NiTi alloys. Materials Science and Engineering C, 2019, 102, 683-695.	7.3	42
14	Self-assembling antimicrobial peptides on nanotubular titanium surfaces coated with calcium phosphate for local therapy. Materials Science and Engineering C, 2019, 94, 333-343.	7.3	40
15	Freestanding SnO2 films produced with anodic polarization in acidic media containing colloidal tin hydroxides. Materials Chemistry and Physics, 2019, 221, 263-271.	4.0	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. Surface and Coatings Technology, 2018, 350, 1050-1057.	4.8	15
17	The corrosion protection ability of TiAlN coatings produced with CA-PVD under superimposed pulse bias. Surface and Coatings Technology, 2018, 346, 1-8.	4.8	31
18	Tribological Study of Feâ€“Wâ€“P Electrodeposited Coating on 316 L Stainless Steel. Journal of Tribology, 2018, 140, .	1.9	7

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19	Magnesium doping on TiN coatings affects mesenchymal stem cell differentiation and proliferation positively in a dose-dependent manner. Bio-Medical Materials and Engineering, 2018, 29, 427-438.	0.6	13
20	Fast synthesis of turbostratic carbon thin coating by cathodic plasma electrolysis. Thin Solid Films, 2017, 621, 253-258.	1.8	12
21	Effect of process parameters on coating composition of cathodic-plasma-electrolysis-treated copper. Bulletin of Materials Science, 2017, 40, 355-365.	1.7	5
22	Production and Characterization of Electroactive Nickel Oxides Grown on Nickel Foam by Anodic Oxidation in KOH Melts for Supercapacitor Applications. MRS Advances, 2017, 2, 3237-3247.	0.9	2
23	Effect of Magnesium and Osteoblast Cell Presence on Hydroxyapatite Formation on (Ti,Mg)N Thin Film Coatings. Jom, 2017, 69, 1195-1205.	1.9	8
24	The role of droplets on the cavitation erosion damage of TiN coatings produced with cathodic arc physical vapor deposition. Surface and Coatings Technology, 2017, 322, 211-217.	4.8	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. Thin Solid Films, 2017, 642, 207-213.	1.8	6
26	Switching dynamics of morphology-structure in chemically deposited carbon films â€“ A new insight. Carbon, 2017, 122, 653-663.	10.3	22
27	Raman spectroscopy of thin DLC film deposited by plasma electrolysis process. Surface and Coatings Technology, 2017, 309, 945-950.	4.8	28
28	Structure and properties of Ti-Al-Y-N coatings deposited from filtered cathodic-arc plasma in gas Ar and N<inf>2</inf> mixture. , 2017, , .		0
29	Orientation dependent tribological behavior of TiN coatings. Journal of Physics Condensed Matter, 2016, 28, 134009.	1.8	8
30	Structure and properties of TiN coatings deposited by filtered vacuum-arc plasma in the gas mixture N<inf>2</inf> with Ar. , 2016, , .		0
31	Role of different plasma gases on the surface chemistry and wettability of RF plasma treated stainless steel. Vacuum, 2016, 129, 63-73.	3.5	29
32	Wear protection potential of TiN coatings for 304 stainless steels used in rotating parts during olive oil extraction. Surface and Coatings Technology, 2016, 304, 560-566.	4.8	27
33	On the erosive wear of 304 L stainless steel caused by olive seed particles impact: Modeling and experiments. Tribology International, 2016, 102, 608-619.	5.9	20
34	Effects of DC Stray Current on Concrete Permeability. Journal of Materials in Civil Engineering, 2016, 28, .	2.9	19
35	Corrosion behaviour of magnesium AZ31 sheet produced by twin roll casting. Corrosion Engineering Science and Technology, 2015, 50, 380-389.	1.4	10
36	Protein-mediated hydroxyapatite composite layer formation on nanotubular titania. Bioinspired, Biomimetic and Nanobiomaterials, 2015, 4, 155-165.	0.9	6

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37	Photocatalytical Antibacterial Activity of Mixed-Phase TiO₂Nanocomposite Thin Films againstAggregatibacter actinomycetemcomitans. BioMed Research International, 2015, 2015, 1-10.	1.9	12
38	Behavior of mammalian cells on magnesium substituted bare and hydroxyapatite deposited (Ti,Mg)N coatings. New Biotechnology, 2015, 32, 747-755.	4.4	13
39	XPS investigations of tribolayers formed on TiN and (Ti,Re)N coatings. Applied Surface Science, 2015, 328, 255-261.	6.1	105
40	Oxidation behavior of electroless Niâ€“P, Niâ€“B and Niâ€“Wâ€“B coatings deposited on steel substrates. Surface and Coatings Technology, 2015, 265, 46-52.	4.8	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. Current Applied Physics, 2015, 15, 511-519.	2.4	4
42	Electrochemically designed interfaces: Hydroxyapatite coated macro-mesoporous titania surfaces. Applied Surface Science, 2015, 350, 62-68.	6.1	17
43	Tribological performance of TiN coatings deposited on 304L stainless steel used for olive-oil extraction. Wear, 2015, 342-343, 77-84.	3.1	34
44	Role of aluminum doping on phase transformations in nanoporous titania anodic oxides. Journal of Alloys and Compounds, 2015, 646, 719-726.	5.5	3
45	Hydrogen gas sensing properties of nanoporous Al-doped titania. Sensors and Actuators B: Chemical, 2014, 204, 109-118.	7.8	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. Microelectronic Engineering, 2014, 126, 184-190.	2.4	19
47	Effect of sodium sulfate on the characteristics and corrosion behavior of high phosphorus Ni-P electroless coatings. Materials and Corrosion - Werkstoffe Und Korrosion, 2014, 65, 926-930.	1.5	2
48	A Simple Method for the Production of AAO Templates for DC Electrodeposition of Nanostructures. ECS Electrochemistry Letters, 2014, 3, D46-D49.	1.9	9
49	Antibacterial Activity of As-Annealed TiO₂Nanotubes Doped with Ag Nanoparticles against Periodontal Pathogens. Bioinorganic Chemistry and Applications, 2014, 2014, 1-8.	4.1	18
50	Carbonated hydroxyapatite deposition at physiological temperature on ordered titanium oxide nanotubes using pulsed electrochemistry. Ceramics International, 2014, 40, 15479-15487.	4.8	27
51	Mechanical and frictional behaviour of nano-porous anodised aluminium. Materials Chemistry and Physics, 2014, 148, 887-895.	4.0	38
52	Effects of electrochemical boriding process parameters on the formation of titanium borides. Surface Engineering and Applied Electrochemistry, 2013, 49, 168-175.	0.8	7
53	Surface morphology, nano-indentation and TEM analysis of tantalum carbideâ€“graphite composite film synthesized by hot-filament chemical vapor deposition. Materials Chemistry and Physics, 2013, 138, 944-950.	4.0	18
54	Structure and properties of TiN coatings produced with PIII&D technique using high efficiency rectilinear filter cathodic arc plasma. Surface and Coatings Technology, 2013, 236, 332-340.	4.8	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.	7.3	32
56	Structure and photovoltaic properties of Ag/p-CuPc/a-Si/c-Si/Ag organicâ€“inorganic hybrid heterojunction fabricated by chemical spray pyrolysis technique. Microelectronic Engineering, 2013, 108, 150-157.	2.4	17
57	Deposition of Diamond onto a Titanium Substrate using a Molybdenum Intermediate Layer. Chemical Vapor Deposition, 2013, 19, 284-289.	1.3	3
58	Novel investigation on tribological properties of Niâ€“Pâ€“Agâ€“Al2O3 hybrid nanocomposite coatings. Tribology International, 2013, 62, 110-116.	5.9	21
59	The influence of Er3+ doping on the structural and optical properties of CeO2 thin films grown by PED. Applied Surface Science, 2013, 285, 409-416.	6.1	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.	6.1	2
61	Addressable selfâ€immobilization of lactate dehydrogenase across multiple length scales. Biotechnology Journal, 2013, 8, 262-272.	3.5	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 Niâ€“Pâ€“Ag coating. Surface Engineering, 2013, 29, 306-311.	2.2	27
65	Evaluation of structure and mechanical properties of Niâ€“Pâ€“Al₂O₃ nanocomposite coatings. Journal of Composite Materials, 2013, 47, 3323-3329.	2.4	13
66	Effect of heat treatment on tribocorrosion of nanostructure Niâ€“P coatings. Surface Engineering, 2013, 29, 671-676.	2.2	8
67	High temperature friction and wear behaviour of Niâ€“Pâ€“Agâ€“Al₂O₃hybrid nanocomposite coating. Transactions of the Institute of Metal Finishing, 2013, 91, 207-213.	1.3	26
68	High purity diamond films synthesised by chemical vapour deposition. Surface Engineering, 2012, 28, 791-795.	2.2	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.	3.4	14
70	Tantalum carbide-graphite composite film synthesized by hot-filament chemical vapor deposition. Pure and Applied Chemistry, 2012, 84, 2499-2506.	1.9	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.	2.9	2
72	Growth of in situ multilayer diamond films by varying substrateâ€“filament distance in hot-filament chemical vapor deposition. Journal of Materials Research, 2012, 27, 3123-3129.	2.6	9

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73	Improvement of gas sensing performance of TiO2 towards NO2 by nano-tubular structuring. Sensors and Actuators B: Chemical, 2012, 169, 151-160.	7.8	53
74	Novel investigation on nanostructure Niâ€“Pâ€“Ag composite coatings. Applied Surface Science, 2012, 261, 155-158.	6.1	12
75	Effect of surface treatment on hot-filament chemical vapour deposition grown diamond films. Journal Physics D: Applied Physics, 2012, 45, 045301.	2.8	11
76	A novel free-standing nanowire substrate with surface enhanced Raman scattering (SERS) activity. Materials Letters, 2012, 67, 387-389.	2.6	13
77	Simultaneous growth of diamond and nanostructured graphite thin films by hot-filament chemical vapor deposition. Solid State Sciences, 2012, 14, 150-154.	3.2	9
78	Diamond films grown without seeding treatment and bias by hot-filament CVD system. Solid State Sciences, 2012, 14, 540-544.	3.2	4
79	Tantalum carbide films synthesized by hot-filament chemical vapor deposition technique. Surface and Coatings Technology, 2012, 206, 2833-2838.	4.8	37
80	Production of free standing Cuâ€“Al intermetallics by cathodic arc plasma treatment. Intermetallics, 2011, 19, 1817-1822.	3.9	10
81	Effect of cathodic arc plasma treatment on the properties of WCâ€“Co based hard metals. Surface and Coatings Technology, 2011, 206, 1759-1764.	4.8	3
82	High-Temperature Sliding Wear Testing of Cathodic Arc Physical Vapor Deposition AlTiN- and AlTiON-Coated Hot Work Tool Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3316-3322.	2.2	5
83	Surface morphology, growth rate and quality of diamond films synthesized in hot filament CVD system under various methane concentrations. Applied Surface Science, 2011, 257, 8420-8426.	6.1	80
84	Electrochemical boriding of titanium for improved mechanical properties. Surface and Coatings Technology, 2010, 204, 3935-3939.	4.8	74
85	PVD coated hot work tool steels for tooling applications in semi-solid processing of steels. International Journal of Material Forming, 2010, 3, 747-750.	2.0	8
86	Transport and storage properties of CrSi2/Si junctions made using the CAPVD technique. Materials Science in Semiconductor Processing, 2010, 13, 257-266.	4.0	3
87	Modification of copper surfaces with cathodic arc aluminum plasma. Surface and Coatings Technology, 2010, 205, 540-544.	4.8	7
88	Bioassay-guided Isolation of Antibacterial and Cytotoxic Compounds from the Mesophilic Actinomycete M-33-5. Natural Product Communications, 2010, 5, 1934578X1000500.	0.5	2
89	Wear Characteristics of NiTi/Al6061 Short Fiber Metal Matrix Composite Reinforced With SiC Particulates. Journal of Tribology, 2010, 132, .	1.9	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 CrSi2/p-Type Crystalline Si Isotype Junction. Japanese Journal of Applied Physics, 2010, 49, 091302.	1.5	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 Crâ€“Oâ€“N coatings. Surface and Coatings Technology, 2009, 203, 2272-2277.	4.8	24
95	Physical elution in phage display selection of inorganic-binding peptides. Materials Science and Engineering C, 2009, 29, 14-19.	7.3	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.	4.8	7
97	Determination of sodium migration in solâ€“gel deposited titania films on soda-lime glass with r.f. glow discharge optical emission spectroscopy. Applied Surface Science, 2009, 255, 4001-4004.	6.1	13
98	A method for polyaniline coatings on solid polystyrene surfaces and electroless copper deposition. Surface and Coatings Technology, 2008, 202, 4176-4182.	4.8	18
99	Synthesis and optical properties of CeO2 nanocrystalline films grown by pulsed electron beam deposition. Journal of Materials Science, 2008, 43, 5102-5108.	3.7	58
100	Comparative tribological behaviors of TiN, CrN and MoNCu nanocomposite coatings. Tribology International, 2008, 41, 49-59.	5.9	155
101	Effect of ion beam modifications on the surface and structural properties of Î²-FeSi2 thin films. Journal Physics D: Applied Physics, 2007, 40, 5995-5999.	2.8	1
102	Surface characterization of Î²-FeSi2/Si heterojunctions prepared by magnetron sputtering. Surface and Coatings Technology, 2007, 201, 8373-8376.	4.8	6
103	Effect of copper addition on the temperature dependent reciprocating wear behaviour of CrN coatings. Surface and Coatings Technology, 2007, 202, 866-870.	4.8	35
104	Characterization of nano-composite TiNâ€“Sb coating produced with hybrid physical vapor deposition system. Thin Solid Films, 2007, 515, 3675-3680.	1.8	5
105	Synthesis of Î²-FeSi2/Si heterojunctions for photovoltaic applications by unbalanced magnetron sputtering. Thin Solid Films, 2007, 516, 13-16.	1.8	30
106	Measurement of residual stresses by X-ray diffraction techniques in MoN and Mo2N coatings deposited by arc PVD on high-speed steel substrate. Surface and Coatings Technology, 2005, 190, 238-243.	4.8	54
107	Scuffing Resistance of Laser Textured Surfaces. , 2005, , 467.		0
108	Photocatalytic Bactericidal Effect of TiO₂ 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 TiO₂ Coatings on Metal Substrates by Cathodic Arc Deposition Technique. Key Engineering Materials, 2004, 264-268, 549-552.	0.4	3
111	Characterization of Mo₂N/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.	3.1	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.	4.8	89
114	Oxidation behavior of molybdenum nitride coatings. Surface and Coatings Technology, 2003, 174-175, 713-719.	4.8	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.	4.8	23
116	Effect of cathodic polarisation on corrosion fatigue behaviour of ion nitrided AISI 4140 steel. International Journal of Fatigue, 2002, 24, 537-543.	5.7	11
117	Lower temperatures for the preparation of thinner zeolite A coatings. Microporous and Mesoporous Materials, 2001, 47, 1-14.	4.4	22
118	Preparation of zeolite coatings by direct heating of the substrates. Microporous and Mesoporous Materials, 1999, 32, 331-343.	4.4	74
119	Stripping of CrN from CrN-coated high-speed steels. Surface and Coatings Technology, 1999, 113, 31-35.	4.8	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.	4.8	70
121	OPTIMIZATION OF ARC-PVD TiN COATING PROCESS PARAMETERS BY TAGUCHI TECHNIQUE. Quality Engineering, 1999, 12, 29-36.	1.1	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.	6.6	12
123	Identification of cracks generated by indentation experiments in hard-coating systems. Surface and Coatings Technology, 1998, 107, 65-75.	4.8	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.	1.3	2
125	The effect of heating on corrosion behavior of TiN- and CrN-coated steels. Surface and Coatings Technology, 1997, 96, 236-244.	4.8	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.	4.8	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.	4.8	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.	6.6	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.	5.6	32
130	Corrosion of zirconium boride and zirconium boron nitride coated steels. Surface and Coatings Technology, 1995, 71, 60-66.	4.8	45
131	A modified version of nielsen's decoration technique. Corrosion Science, 1992, 33, 1179-1181.	6.6	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.	6.6	26
133	ESCA measurements of films on molybdenum formed in the passive and transpassive region. Corrosion Science, 1990, 30, 377-391.	6.6	38