

# G E Thompson

## List of Publications by Year in descending order

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82  
papers

4,244  
citations

101384

36  
h-index

110170

64  
g-index

83  
all docs

83  
docs citations

83  
times ranked

2399  
citing authors

#	ARTICLE	IF	CITATIONS
1	Porous anodic film formation on aluminium. <i>Nature</i> , 1981, 290, 230-232.	13.7	452
2	Nucleation and growth of porous anodic films on aluminium. <i>Nature</i> , 1978, 272, 433-435.	13.7	414
3	Effects of Alloying Elements in Anodizing of Aluminium. <i>Transactions of the Institute of Metal Finishing</i> , 1997, 75, 18-23.	0.6	193
4	Anodic oxidation of aluminium. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1987, 55, 651-667.	0.6	191
5	A Tracer Study of Porous Anodic Alumina. <i>Electrochemical and Solid-State Letters</i> , 2006, 9, B47.	2.2	179
6	A Model for the Incorporation of Electrolyte Species into Anodic Alumina. <i>Journal of the Electrochemical Society</i> , 1996, 143, 74-83.	1.3	163
7	Release of silver and copper nanoparticles from polyethylene nanocomposites and their penetration into <i>Listeria monocytogenes</i> . <i>Materials Science and Engineering C</i> , 2014, 40, 24-31.	3.8	159
8	Tracer Investigation of Pore Formation in Anodic Titania. <i>Journal of the Electrochemical Society</i> , 2008, 155, C487.	1.3	129
9	An STM Study of the Passive Film Formed on Iron in Borate Buffer Solution. <i>Journal of the Electrochemical Society</i> , 1995, 142, L177-L179.	1.3	107
10	Development of porous anodic films on aluminium. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1992, 66, 643-652.	0.8	102
11	Transmission electron microscopy of coatings formed by plasma electrolytic oxidation of titanium. <i>Acta Biomaterialia</i> , 2009, 5, 1356-1366.	4.1	99
12	Mechanical properties of amorphous anodic alumina and tantala films using nanoindentation. <i>Nanotechnology</i> , 2002, 13, 451-455.	1.3	93
13	Evidence of oxygen bubbles formed within anodic films on aluminium-copper alloys. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , 1997, 76, 729-741.	0.8	79
14	Barrier-Type anodic films on aluminium in aqueous borate solutions: 1?Film density and stopping power of anodic alumina films for alpha particles. <i>Surface and Interface Analysis</i> , 1983, 5, 247-251.	0.8	78
15	Oxidation of copper and mobility of copper ions during anodizing of an Al <sup>1.5</sup> wt.% Cu alloy. <i>Surface and Interface Analysis</i> , 1995, 23, 892-898.	0.8	68
16	The incorporation of metal ions into anodic films on aluminium alloys. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1996, 73, 445-460.	0.6	68
17	A Tracer Study of Oxide Growth during Spark Anodizing of Aluminum. <i>Journal of the Electrochemical Society</i> , 2005, 152, C382.	1.3	62
18	A tracer investigation of chromic acid anodizing of aluminium. <i>Surface and Interface Analysis</i> , 2007, 39, 860-864.	0.8	61

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19	On the nature of 'easy paths' for the diffusion of oxygen in thermal oxide films on aluminum. <i>Oxidation of Metals</i> , 1991, 35, 427-439.	1.0	59
20	Barrier-type anodic films on aluminium in aqueous borate solutions: 2?Film compositions by Rutherford backscattering spectroscopy and nuclear reaction methods. <i>Surface and Interface Analysis</i> , 1983, 5, 252-263.	0.8	58
21	The Migration of Fluoride Ions in Growing Anodic Oxide Films on Tantalum. <i>Journal of the Electrochemical Society</i> , 1997, 144, 418-423.	1.3	55
22	STEM/EDAX Analysis of the Cell Walls in Porous Anodic Films Formed on Aluminum. <i>Journal of the Electrochemical Society</i> , 1978, 125, 1480-1482.	1.3	53
23	Porous Anodic Film Formation on Aluminium Substrates in Phosphoric Acid. <i>Transactions of the Institute of Metal Finishing</i> , 1978, 56, 159-167.	0.6	53
24	Influence of Local Heat Development on Film Thickness for Anodizing Aluminum in Sulfuric Acid. <i>Journal of the Electrochemical Society</i> , 2003, 150, B158.	1.3	53
25	The Composition of the Alloy/Film Interface during Anodic Oxidation of Al-W Alloys. <i>Journal of the Electrochemical Society</i> , 1996, 143, 2465-2470.	1.3	51
26	Volume Expansion Factor and Growth Efficiency of Anodic Alumina Formed in Sulphuric Acid. <i>Journal of the Electrochemical Society</i> , 2011, 158, C202-C214.	1.3	51
27	Ionic Mobilities in Amorphous Anodic Titania. <i>Journal of the Electrochemical Society</i> , 2002, 149, B70.	1.3	50
28	Dye-sensitization of self-assembled titania nanotubes prepared by galvanostatic anodization of Ti sputtered on conductive glass. <i>Nanotechnology</i> , 2009, 20, 365601.	1.3	49
29	Interrelationships between ionic transport and composition in amorphous anodic oxides. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 1997, 453, 1593-1609.	1.0	47
30	Compositional Evidence for Flow in Anodic Films on Aluminum under High Electric Fields. <i>Journal of the Electrochemical Society</i> , 2007, 154, C540.	1.3	47
31	Anodic Film Formation on AA 2099-T8 Aluminum Alloy in Tartaric-Sulfuric Acid. <i>Journal of the Electrochemical Society</i> , 2011, 158, C17.	1.3	45
32	Structural information about amorphous anodic alumina from <sup>27</sup> Al MAS NMR. <i>Philosophical Magazine Letters</i> , 1989, 59, 189-195.	0.5	43
33	Nanoporous Anodic Niobium Oxide Formed in Phosphate/Glycerol Electrolyte. <i>Electrochemical and Solid-State Letters</i> , 2005, 8, B17-B20.	2.2	43
34	[sup 18]O Tracer Study of Porous Film Growth on Aluminum in Phosphoric Acid. <i>Journal of the Electrochemical Society</i> , 2010, 157, C399.	1.3	42
35	Observation of flaws in anodic films on aluminium. <i>Nature</i> , 1980, 286, 471-472.	13.7	39
36	Influence of Film Composition on the Structure and Dielectric Properties of Anodic Films on Ti-W Alloys. <i>Journal of the Electrochemical Society</i> , 2005, 152, B263.	1.3	38

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37	Incorporation of tungsten and molybdenum into anodic alumina films. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1989, 60, 513-521.	0.6	36
38	Characterization of Spark-Anodized Titanium for Biomedical Applications. Journal of the Electrochemical Society, 2007, 154, C279.	1.3	36
39	Formation of porous anodic alumina at high current efficiency. Nanotechnology, 2007, 18, 415605.	1.3	35
40	A novel marker for the determination of transport numbers during anodic barrier oxide growth on aluminium. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1991, 64, 345-353.	0.6	32
41	Tracing locations of new coating material during spark anodizing of titanium. Philosophical Magazine, 2006, 86, 49-66.	0.7	31
42	Electron Microscopy of Anodic Films Formed on Aluminium in Sulphuric Acid. Transactions of the Institute of Metal Finishing, 1977, 55, 117-128.	0.6	30
43	Porous Anodic Films Formed on Aluminium in Chromic Acid. Transactions of the Institute of Metal Finishing, 1980, 58, 21-25.	0.6	30
44	Behavior of Impurity and Minor Alloying Elements during Surface Treatments of Aluminum. Journal of the Electrochemical Society, 2002, 149, B139.	1.3	30
45	Anodizing of Aluminum under Nonsteady Conditions. Journal of the Electrochemical Society, 2009, 156, C407.	1.3	28
46	Incorporation of Gold into Porous Anodic Alumina Formed on an Al-Au Alloy. Journal of the Electrochemical Society, 2008, 155, C333.	1.3	26
47	Ionic Transport in Anodically Oxidized Al/W Layers. Journal of the Electrochemical Society, 2002, 149, B23.	1.3	23
48	Spark anodising of titanium for biomedical applications. Transactions of the Institute of Metal Finishing, 2006, 84, 125-133.	0.6	23
49	Anodizing of Aluminum in Sulfuric Acid/Boric Acid Mixed Electrolyte. Journal of the Electrochemical Society, 2013, 160, C179-C184.	1.3	19
50	Antibacterial and non-cytotoxic effect of nanocomposites based in polyethylene and copper nanoparticles. Journal of Materials Science: Materials in Medicine, 2015, 26, 129.	1.7	19
51	An X-ray absorption study of barrier-type anodic films formed on aluminium in chromate electrolytes. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1991, 63, 557-571.	0.6	18
52	Anodic film formation on sputter-deposited amorphous Al-Zr alloys. Journal Physics D: Applied Physics, 1995, 28, 2612-2618.	1.3	18
53	Formation and accommodation of gold atom clusters and oxygen bubbles during amorphous anodic alumina growth. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 1999, 455, 385-399.	1.0	18
54	Growth and field crystallization of anodic films on Ta-Nb alloys. Journal of Solid State Electrochemistry, 2012, 16, 1595-1604.	1.2	16

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55	Microstructural Modification Arising from Alkaline Etching and Its Effect on Anodizing Behavior of Al-Li-Cu Alloy. Journal of the Electrochemical Society, 2013, 160, C111-C118.	1.3	16
56	Anodic film formation on high strength aluminium alloy FVS0812. Journal of Materials Science, 1997, 32, 4909-4916.	1.7	15
57	Microcrystallinity in X-ray amorphous anodic Ta <sub>2</sub> O <sub>5</sub> . The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1991, 63, 891-899.	0.6	13
58	Dielectric and mechanical properties of anodic films in the Ta-Ti system. Surface and Interface Analysis, 2003, 35, 477-482.	0.8	13
59	Importance of amorphous-to-crystalline transitions for ionic transport and oxygen generation in anodic films. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 2000, 80, 1027-1042.	0.8	11
60	Direct observation of the two-layer structure of anodic oxide films on tantalum. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1989, 60, 591-596.	0.8	10
61	Smoothing of Aluminum Surfaces during Barrier Anodic Oxide Growth on Aluminum.. Hyomen Cijutsu/Journal of the Surface Finishing Society of Japan, 1991, 42, 645-648.	0.1	10
62	Incorporation and Migration of Phosphorus Species in Anodic Alumina Films Containing Tungsten Tracer Layers. Journal of the Electrochemical Society, 2010, 157, C437.	1.3	10
63	Anodic Film Formation on Aluminum in Nitric Acid. Journal of the Electrochemical Society, 2008, 155, C557.	1.3	9
64	Growth of porous anodic alumina films in hot phosphate-glycerol electrolyte. Journal of Solid State Electrochemistry, 2011, 15, 689-696.	1.2	9
65	Porous Anodic Film Formation on Scratched Aluminium Substrates. Transactions of the Institute of Metal Finishing, 1979, 57, 123-129.	0.6	8
66	Formation of barrier anodic films on aluminium in antimonate electrolyte. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1993, 68, 787-803.	0.6	8
67	A high-resolution, analytical study of the anodic film formed on GaAs in a tungstate electrolyte. Journal Physics D: Applied Physics, 1996, 29, 2545-2553.	1.3	8
68	Incorporation and migration of phosphorus species within anodic films on an Al-W alloy. Surface and Interface Analysis, 2011, 43, 893-902.	0.8	8
69	Single-Step Fabrication of Metal Nanoparticle Loaded Mesoporous Alumina through Anodizing of a Commercial Aluminum Alloy. Electrochemical and Solid-State Letters, 2012, 15, E4.	2.2	8
70	Behaviour of copper and generation of oxygen during anodizing of Nb-Cu alloys. Surface and Interface Analysis, 2000, 29, 895-902.	0.8	7
71	Gel formation during growth of barrier-type anodic films on aluminium. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1994, 70, 163-174.	0.6	6
72	Direct evidence of the formation of Al <sub>2</sub> Au nanocrystals at the alloy-film interface of anodized Al-Au alloys. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1998, 77, 267-272.	0.8	6

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73	Porous Anodic Alumina Growth in Borax Electrolyte. Journal of the Electrochemical Society, 2012, 159, C583-C589.	1.3	4
74	<sup>18</sup> O distributions in porous anodic alumina by plasma profiling time-of-flight mass spectrometry and nuclear reaction analysis. Surface and Interface Analysis, 2012, 44, 1346-1352.	0.8	4
75	Oxygen generation in anodized Ta-Cu alloys. Philosophical Magazine, 2003, 83, 2733-2746.	0.7	3
76	Compositional Self-Organizing in the Anodic Film on a Mg-Ta Alloy. Journal of the Electrochemical Society, 2003, 150, B439.	1.3	3
77	Influence of surface treatments in the initial stages of anodizing Al-Ag alloys in neutral electrolytes. Journal of Solid State Electrochemistry, 2006, 10, 83-90.	1.2	3
78	Influence of current density on the distribution of tungsten tracer in porous anodic alumina films. Surface and Interface Analysis, 2010, 42, 247-251.	0.8	3
79	Porous Anodic Film Growth on a Zr-W Alloy. Electrochemical and Solid-State Letters, 2012, 15, C8.	2.2	3
80	Important features in the adhesive bonding of aluminium. Transactions of the Institute of Metal Finishing, 1988, 66, 127-132.	0.6	2
81	Ion Migration and Film Morphologies in Anodic Alumina Films Formed in Selenate Electrolyte. Journal of the Electrochemical Society, 2012, 159, C312-C317.	1.3	2
82	Electronoptical observations of anodic films formed on aluminium in molten melts. Transactions of the Institute of Metal Finishing, 1988, 66, 102-106.	0.6	0