

Peter J Kelly

List of Publications by Year in descending order

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77
papers

2,468
citations

279798

23
h-index

206112

48
g-index

79
all docs

79
docs citations

79
times ranked

3562
citing authors

#	ARTICLE	IF	CITATIONS
1	3D Printed Graphene Based Energy Storage Devices. Scientific Reports, 2017, 7, 42233.	3.3	345
2	Determination of the Electrochemical Area of Screen-Printed Electrochemical Sensing Platforms. Biosensors, 2018, 8, 53.	4.7	252
3	Electrical and Optical Properties of Fluorine Doped Tin Oxide Thin Films Prepared by Magnetron Sputtering. Coatings, 2014, 4, 732-746.	2.6	206
4	The effect of crystalline phase (anatase, brookite and rutile) and size on the photocatalytic activity of calcined polymorphic titanium dioxide (TiO ₂). Polymer Degradation and Stability, 2018, 150, 31-36.	5.8	151
5	Comparison of the tribological and antimicrobial properties of CrN/Ag, ZrN/Ag, TiN/Ag, and TiN/Cu nanocomposite coatings. Surface and Coatings Technology, 2010, 205, 1606-1610.	4.8	150
6	A study of the antimicrobial and tribological properties of TiN/Ag nanocomposite coatings. Surface and Coatings Technology, 2009, 204, 1137-1140.	4.8	116
7	2D nanosheet molybdenum disulphide (MoS ₂) modified electrodes explored towards the hydrogen evolution reaction. Nanoscale, 2015, 7, 18152-18168.	5.6	104
8	Highly efficient photocatalytic bismuth oxide coatings and their antimicrobial properties under visible light irradiation. Applied Catalysis B: Environmental, 2018, 239, 223-232.	20.2	70
9	In situ electrochemical characterisation of graphene and various carbon-based electrode materials: an internal standard approach. RSC Advances, 2015, 5, 37281-37286.	3.6	57
10	Next-Generation Additive Manufacturing: Tailorable Graphene/Poly(lactic acid) Filaments Allow the Fabrication of 3D Printable Porous Anodes for Utilisation within Lithium-Ion Batteries. Batteries and Supercaps, 2019, 2, 448-453.	4.7	52
11	Visible light active photocatalytic C-doped titanium dioxide films deposited via reactive pulsed DC magnetron co-sputtering: Properties and photocatalytic activity. Vacuum, 2018, 149, 214-224.	3.5	42
12	Measurements of Deposition Rate and Substrate Heating in a HiPIMS Discharge. Plasma Processes and Polymers, 2009, 6, S543.	3.0	40
13	Structural Formation and Photocatalytic Activity of Magnetron Sputtered Titania and Doped-Titania Coatings. Molecules, 2014, 19, 16327-16348.	3.8	33
14	Novel and versatile TiO ₂ thin films on PET for photocatalytic removal of contaminants of emerging concern from water. Chemical Engineering Journal, 2019, 370, 1251-1261.	12.7	32
15	The antimicrobial effect of metal substrates on food pathogens. Food and Bioproducts Processing, 2019, 113, 68-76.	3.6	32
16	Synthesis of Cu/TiO ₂ catalysts by reactive magnetron sputtering deposition and its application for photocatalytic reduction of CO ₂ and H ₂ O to CH ₄ . Ceramics International, 2019, 45, 22961-22971.	4.8	31
17	The Influence of Pulse Frequency and Duty on the Deposition Rate in Pulsed Magnetron Sputtering. Plasma Processes and Polymers, 2007, 4, 246-252.	3.0	29
18	Novel synthesis of mesoporous hydroxyapatite using carbon nanorods as a hard-template. Ceramics International, 2017, 43, 5412-5416.	4.8	29

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19	Mechanical, pH and Thermal Stability of Mesoporous Hydroxyapatite. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2018, 28, 84-91.	3.7	29
20	Quantifying the pattern of microbial cell dispersion, density and clustering on surfaces of differing chemistries and topographies using multifractal analysis. <i>Journal of Microbiological Methods</i> , 2014, 104, 101-108.	1.6	27
21	Deposition of Visible Light-Active C-Doped Titania Films via Magnetron Sputtering Using CO ₂ as a Source of Carbon. <i>Nanomaterials</i> , 2017, 7, 113.	4.1	27
22	Optimization Studies of Photocatalytic Tungsten-Doped Titania Coatings Deposited by Reactive Magnetron Co-Sputtering. <i>Coatings</i> , 2013, 3, 194-207.	2.6	24
23	Magnetron co-sputtered Bi ₁₂ TiO ₂₀ /Bi ₄ Ti ₃ O ₁₂ composite “An efficient photocatalytic material with photoinduced oxygen vacancies for water treatment application. <i>Applied Surface Science</i> , 2021, 552, 149486.	6.1	24
24	Diffusion studies in magnetron sputter deposited silicon nitride films. <i>Surface and Coatings Technology</i> , 2014, 255, 37-42.	4.8	23
25	Investigations of diffusion behaviour in Al-doped zinc oxide and zinc stannate coatings. <i>Thin Solid Films</i> , 2011, 520, 1368-1374.	1.8	22
26	The effect of surface properties of polycrystalline, single phase metal coatings on bacterial retention. <i>International Journal of Food Microbiology</i> , 2015, 197, 92-97.	4.7	22
27	Deposition of Visible Light Active Photocatalytic Bismuth Molybdate Thin Films by Reactive Magnetron Sputtering. <i>Materials</i> , 2016, 9, 67.	2.9	22
28	Magnetron Sputter-Coated Nanoparticle MoS ₂ Supported on Nanocarbon: A Highly Efficient Electrocatalyst toward the Hydrogen Evolution Reaction. <i>ACS Omega</i> , 2018, 3, 7235-7242.	3.5	22
29	Titania coating of mesoporous silica nanoparticles for improved biocompatibility and drug release within blood vessels. <i>Acta Biomaterialia</i> , 2018, 76, 208-216.	8.3	21
30	Reactive magnetron sputtering deposition of bismuth tungstate onto titania nanoparticles for enhancing visible light photocatalytic activity. <i>Applied Surface Science</i> , 2017, 392, 590-597.	6.1	20
31	Reactive Magnetron Sputter Deposition of Bismuth Tungstate Coatings for Water Treatment Applications under Natural Sunlight. <i>Catalysts</i> , 2017, 7, 283.	3.5	20
32	Design and optimisation of a low-cost titanium dioxide-coated stainless steel mesh photocatalytic water treatment reactor. <i>Journal of Cleaner Production</i> , 2021, 297, 126641.	9.3	18
33	Photocatalytic TiO ₂ and Doped TiO ₂ Coatings to Improve the Hygiene of Surfaces Used in Food and Beverage Processing “A Study of the Physical and Chemical Resistance of the Coatings. <i>Coatings</i> , 2014, 4, 433-449.	2.6	17
34	The effects of blood conditioning films on the antimicrobial and retention properties of zirconium-nitride silver surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 173, 303-311.	5.0	17
35	Cathode Current Density Distributions in High Power Impulse and Direct Current Magnetron Sputtering Modes. <i>Plasma Processes and Polymers</i> , 2009, 6, S548.	3.0	16
36	Influence of inert gas species on the growth of silver and molybdenum films via a magnetron discharge. <i>Surface and Coatings Technology</i> , 2011, 206, 1648-1652.	4.8	16

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37	High Yield Synthesis of Hydroxyapatite (HAP) and Palladium Doped HAP via a Wet Chemical Synthetic Route. <i>Catalysts</i> , 2016, 6, 119.	3.5	16
38	Crystalline TiO ₂ supported on stainless steel mesh deposited in a one step process via pulsed DC magnetron sputtering for wastewater treatment applications. <i>Journal of Materials Research and Technology</i> , 2020, 9, 5761-5773.	5.8	16
39	Microbial populations on brewery filling hall surfaces – Progress towards functional coatings. <i>Food Control</i> , 2015, 55, 1-11.	5.5	15
40	Pulsed DC magnetron sputtering deposition of crystalline photocatalytic titania coatings at elevated process pressures. <i>Materials Science in Semiconductor Processing</i> , 2017, 71, 188-196.	4.0	15
41	Oxygen-controlled structures and properties of transparent conductive SnO ₂ :F films. <i>Journal of Alloys and Compounds</i> , 2017, 695, 765-770.	5.5	15
42	Superhydrophobic photocatalytic PTFE – Titania coatings deposited by reactive pDC magnetron sputtering from a blended powder target. <i>Materials Chemistry and Physics</i> , 2017, 190, 108-113.	4.0	14
43	Nanoscratch testing of atomic layer deposition and magnetron sputtered TiO ₂ and Al ₂ O ₃ coatings on polymeric substrates. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012, 30, 01A132.	2.1	13
44	Low-temperature synthesis of vertically aligned graphene through microwave-assisted chemical vapour deposition. <i>Thin Solid Films</i> , 2021, 733, 138801.	1.8	13
45	Characterisation Studies of the Structure and Properties of As-Deposited and Annealed Pulsed Magnetron Sputtered Titania Coatings. <i>Coatings</i> , 2013, 3, 166-176.	2.6	12
46	High Temporal Resolution Ion Energy Distribution Functions in HIPIMS Discharges. <i>Plasma Processes and Polymers</i> , 2009, 6, S610.	3.0	11
47	A Novel Technique for the Deposition of Bismuth Tungstate onto Titania Nanoparticulates for Enhancing the Visible Light Photocatalytic Activity. <i>Coatings</i> , 2016, 6, 29.	2.6	11
48	Biofilm associated genotypes of multiple antibiotic resistant <i>Pseudomonas aeruginosa</i> . <i>BMC Genomics</i> , 2021, 22, 572.	2.8	11
49	Photocatalytic microfiltration membranes produced by magnetron sputtering with self-cleaning capabilities. <i>Thin Solid Films</i> , 2022, 747, 139143.	1.8	11
50	Characterization studies of aluminum oxide barrier coatings on polymeric substrates. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012, 30, 041502.	2.1	10
51	A New Approach to the Deposition of Elemental Boron and Boron-Based Coatings by Pulsed Magnetron Sputtering of Loosely Packed Boron Powder Targets. <i>Plasma Processes and Polymers</i> , 2007, 4, S160-S165.	3.0	9
52	Conversion of aluminium oxide coated films for food packaging applications – From a single layer material to a complete pouch. <i>Food Packaging and Shelf Life</i> , 2019, 20, 100309.	7.5	9
53	Properties of Pulsed Magnetron Sputtered TiO ₂ Coatings Grown under Different Magnetron Configurations and Power Deliver Modes. <i>Plasma Processes and Polymers</i> , 2007, 4, S299-S304.	3.0	8
54	The characteristics of the plasma in a powder sputtering rig. <i>Thin Solid Films</i> , 2008, 516, 4030-4035.	1.8	8

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55	Can Ultrasound or pH Influence Pd Distribution on the Surface of HAP to Improve Its Catalytic Properties in the Dry Reforming of Methane?. <i>Catalysis Letters</i> , 2017, 147, 2200-2208.	2.6	8
56	Reel-to-Reel Atmospheric Pressure Dielectric Barrier Discharge (DBD) Plasma Treatment of Polypropylene Films. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 337.	2.5	8
57	On the Potential of CVD Diamond Films as Mechanical Seal Face Materials. <i>Tribology Transactions</i> , 2008, 51, 33-43.	2.0	7
58	Photocatalytic Activity of Reactively Sputtered Titania Coatings Deposited Using a Full Face Erosion Magnetron. <i>Coatings</i> , 2013, 3, 177-193.	2.6	7
59	Effectiveness of titanium nitride silver coatings against <i>Staphylococcus</i> spp. in the presence of BSA and whole blood conditioning agents. <i>International Biodeterioration and Biodegradation</i> , 2019, 141, 44-51.	3.9	7
60	The Influence of Pits on the Tribological Behavior of Grey Cast Iron under Dry Sliding. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-9.	1.1	6
61	Mass Spectrometric Observations of the Ionic Species in a Double Dielectric Barrier Discharge Operating in Nitrogen. <i>Plasma Processes and Polymers</i> , 2016, 13, 649-653.	3.0	5
62	Development of a rapid method for assessing the efficacy of antibacterial photocatalytic coatings. <i>Talanta</i> , 2021, 225, 122009.	5.5	5
63	Micro-Patterning of Magnetron Sputtered Titanium Dioxide Coatings and Their Efficiency for Photocatalytic Applications. <i>Coatings</i> , 2020, 10, 68.	2.6	5
64	The Removal of Meat Exudate and <i>Escherichia coli</i> from Stainless Steel and Titanium Surfaces with Irregular and Regular Linear Topographies. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 3198.	2.6	4
65	Visible light photocatalytic bismuth oxide coatings are effective at suppressing aquatic cyanobacteria and degrading free-floating genomic DNA. <i>Journal of Environmental Sciences</i> , 2021, 104, 128-136.	6.1	4
66	The effect of TiO ₂ coatings on the formation of ozone and nitrogen oxides in non-thermal atmospheric pressure plasma. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106046.	6.7	4
67	An Investigation into W or Nb or ZnFe ₂ O ₄ Doped Titania Nanocomposites Deposited from Blended Powder Targets for UV/Visible Photocatalysis. <i>Coatings</i> , 2013, 3, 153-165.	2.6	3
68	Mechanisms of atmospheric pressure plasma treatment of BOPP. <i>Plasma Processes and Polymers</i> , 2018, 15, 1700051.	3.0	3
69	Reactive Magnetron Sputter Deposition of Copper on TiO ₂ Support for Photoreduction of CO ₂ to CH ₄ . <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 559, 012017.	0.6	3
70	Biofilm Control Strategies: Engaging with the Public. <i>Antibiotics</i> , 2020, 9, 465.	3.7	3
71	Photocatalytic degradation of contaminants of emerging concern using a low-cost and efficient black bismuth titanate-based water treatment reactor. <i>Journal of Water Process Engineering</i> , 2022, 45, 102525.	5.6	3
72	The Influence of Rotating Direction on the Tribological Behavior of Grey Cast Iron with Curve Distributed Pit Textured Surface. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-10.	1.1	2

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73	Nb-doped TiO ₂ coatings developed by high power impulse magnetron sputtering-chemical vapor deposition hybrid deposition process. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2020, 38, 033410.	2.1	2
74	Multifractal Analysis to Determine the Effect of Surface Topography on the Distribution, Density, Dispersion and Clustering of Differently Organised Coccal-Shaped Bacteria. <i>Antibiotics</i> , 2022, 11, 551.	3.7	2
75	The Introduction of Alternative Process Gas Regimes during the Reactive Sputter Deposition of Titania Coatings. <i>Plasma Processes and Polymers</i> , 2007, 4, S294-S298.	3.0	1
76	Use of ion-assisted sputtering technique for producing photocatalytic titanium dioxide thin films: Influence of thermal treatments on structural and activity properties based on the decomposition of stearic acid. <i>Polymer Degradation and Stability</i> , 2018, 157, 1-8.	5.8	1
77	Next-Generation Additive Manufacturing: Tailorable Graphene/Poly(lactic acid) Filaments Allow the Fabrication of 3D Printable Porous Anodes for Utilisation within Lithium-ion Batteries. <i>Batteries and Supercaps</i> , 2019, 2, 399-400.	4.7	0