# Brian E Hayden

List of Publications by Year
in descending order



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|---|---|---|---|
| 132 papers | 5,551 citations | 66234 42 h-index | 88477 70 g-index |
| 135 all docs | 135 docs citations | 135 times ranked | 4345 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Roadmap on inorganic perovskites for energy applications. JPhys Energy, 2021, 3, 031502. | 2.3 | 40 |
| 2 | Growth of amorphous, anatase and rutile phase TiO2 thin films on Pt/TiO2/SiO2/Si (SSTOP) substrate for resistive random access memory (ReRAM) device application. Ceramics International, 2020, 46, 16310-16320. | 2.3 | 16 |
| 3 | Origin of improved tunability and loss in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">N</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> annealed barium strontium titanate films. Physical Review Materials, 2020, 4, . | 0.9 | 4 |
| 4 | ABO<sub>3</sub> and A<sub>1â^'x</sub>C<sub>x</sub>B<sub>1â^'y</sub>D<sub>y</sub>(O<sub>1â^'z</sub>E<sub>z</sub>)<sub>3</sub>: review of experimental optimisation of thin film perovskites by high-throughput evaporative physical vapour deposition. Chemical Communications, 2019, 55, 10047-10055. | 2.2 | 8 |
| 5 | Electronically Beam-steerable Dual-band Reflectarray for Satellite Communications. , 2019, , . | | 2 |
| 6 | Multibeam Dual-Circularly Polarized Reflectarray for Connected and Autonomous Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 3574-3585. | 3.9 | 25 |
| 7 | Reversible perovskite electrocatalysts for oxygen reduction/oxygen evolution. Chemical Science, 2019, 10, 4609-4617. | 3.7 | 41 |
| 8 | Stoichiometric Engineering of Chalcogenide Semiconductor Alloys for Nanophotonic Applications. Advanced Materials, 2019, 31, e1807083. | 11.1 | 32 |
| 9 | The particle size dependence of CO oxidation on model planar titania supported gold catalysts measured by parallel thermographic imaging. Journal of Catalysis, 2019, 369, 175-180. | 3.1 | 7 |
| 10 | Oxygen reduction and oxygen evolution on SrTi1â^'xFexO3â^'y (STFO) perovskite electrocatalysts. Journal of Electroanalytical Chemistry, 2018, 819, 275-282. | 1.9 | 21 |
| 11 | Photonic Metamaterials: Optical Response of Nanohole Arrays Filled with Chalcogenide Low-Epsilon Media (Advanced Optical Materials 22/2018). Advanced Optical Materials, 2018, 6, 1870088. | 3.6 | 0 |
| 12 | Optical Response of Nanohole Arrays Filled with Chalcogenide Lowâ€Epsilon Media. Advanced Optical Materials, 2018, 6, 1800395. | 3.6 | 12 |
| 13 | Combinatorial synthesis and screening of (Ba,Sr)(Ti,Mn)O<sub>3</sub> thin films for optimization of tunable co-planar waveguides. Journal of Materials Chemistry C, 2018, 6, 6222-6228. | 2.7 | 9 |
| 14 | Compositionally controlled plasmonics in amorphous semiconductor metasurfaces. Optics Express, 2018, 26, 20861. | 1.7 | 12 |
| 15 | High-Throughput Synthesis and Characterization of Eu Doped BaxSr2â€“xSiO4 Thin Film Phosphors. ACS Combinatorial Science, 2018, 20, 451-460. | 3.8 | 5 |
| 16 | Synthesis and Screening of Phase Change Chalcogenide Thin Film Materials for Data Storage. ACS Combinatorial Science, 2017, 19, 478-491. | 3.8 | 35 |
| 17 | Structural, dielectric and ferroelectric properties of (Bi,Na)TiO3â€“BaTiO3 system studied by high throughput screening. Thin Solid Films, 2016, 603, 108-114. | 0.8 | 8 |
| 18 | A High-Throughput Approach Developing Lithium-Niobium-Tantalum Oxides as Electrolyte/Cathode Interlayers for High-Voltage All-Solid-State Lithium Batteries. Journal of the Electrochemical Society, 2015, 162, A722-A726. | 1.3 | 32 |

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| 19 | High-Throughput Synthesis and Characterization of Thin Film High Entropy Alloys Based on the Fe-Ni-Co-Cu-Ga System. , 2015, , 1139-1146. | | 1 |
| 20 | High-Throughput Synthesis and Characterization of (Ba<sub>x</sub>Sr<sub>1â€“x</sub>)<sub>1+y</sub>Ti<sub>1â€“y</sub>O<sub>3â^'Î´</sub> and (Ba<sub>x</sub>Sr<sub>1â€“x</sub>)<sub>1+y</sub>Ti<sub>1â€“y</sub>O<sub>3â€“z</sub>N< Perovskite Thin Films. Crystal Growth and Design, 2014, 14, 523-532. | 1.4 | 19 |
| 21 | The Particle Size Dependence of the Oxygen Reduction Reaction for Carbonâ€Supported Platinum and Palladium. ChemSusChem, 2013, 6, 1973-1982. | 3.6 | 48 |
| 22 | A simultaneous screening of the corrosion resistance of Niâ€“W thin film alloys. Electrochimica Acta, 2013, 111, 930-936. | 2.6 | 22 |
| 23 | Particle Size and Support Effects in Electrocatalysis. Accounts of Chemical Research, 2013, 46, 1858-1866. | 7.6 | 142 |
| 24 | High throughput optimisation of PdCu alloy electrocatalysts for the reduction of nitrate ions. Journal of Catalysis, 2013, 305, 27-35. | 3.1 | 59 |
| 25 | Innovative catalyst supports to address fuel cell stack durability. International Journal of Hydrogen Energy, 2013, 38, 640-645. | 3.8 | 25 |
| 26 | Novel metal gates for high Îº applications. Journal of Applied Physics, 2013, 113, . | 1.1 | 3 |
| 27 | High throughput physical vapour deposition and dielectric and ferroelectric screening of (Bi,Na)TiO3 thin-film libraries. Journal of Applied Physics, 2013, 113, . | 1.1 | 12 |
| 28 | The high throughput electrochemical screening of the corrosion resistance of Niâ€“Cr thin film alloys. Electrochimica Acta, 2012, 76, 389-393. | 2.6 | 14 |
| 29 | High Throughput Methodology for Synthesis, Screening, and Optimization of Solid State Lithium Ion Electrolytes. ACS Combinatorial Science, 2011, 13, 375-381. | 3.8 | 38 |
| 30 | Non-Noble Intertransition Binary Metal Alloy Electrocatalyst for Hydrogen Oxidation and Hydrogen Evolution. Journal of Physical Chemistry C, 2011, 115, 19226-19230. | 1.5 | 15 |
| 31 | Hydrogen Evolution and Hydrogen Oxidation on Palladium Bismuth Alloys. Topics in Catalysis, 2011, 54, 77-82. | 1.3 | 35 |
| 32 | High throughput synthesis and characterization of the PbnNb2O5+n (0.5<n<4.1) system on a single chip. Acta Materialia, 2011, 59, 2201-2209. | 3.8 | 9 |
| 33 | TiO2(110)-(1Ã—1) supported Cu particles: An FT-RAIRS investigation. Surface Science, 2011, 605, 174-178. | 0.8 | 5 |
| 34 | The hydrogen evolution reaction and hydrogen oxidation reaction on thin film PdAu alloy surfaces. Physical Chemistry Chemical Physics, 2010, 12, 11398. | 1.3 | 48 |
| 35 | The influence of Pt particle size on the surface oxidation of titania supported platinum. Physical Chemistry Chemical Physics, 2009, 11, 1564. | 1.3 | 44 |
| 36 | The influence of support and particle size on the platinum catalysed oxygen reduction reaction. Physical Chemistry Chemical Physics, 2009, 11, 9141. | 1.3 | 64 |

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| 37 | High-Throughput Synthesis and Screening of Hydrogen-Storage Alloys. ACS Combinatorial Science, 2008, 10, 37-43. | 3.3 | 22 |
| 38 | High-Throughput Structure/Function Screening of Materials and Catalysts with Multiple Spectroscopic Techniques. AIP Conference Proceedings, 2007, , . | 0.3 | 3 |
| 39 | Synthesis of the Ferroelectric Solid Solution, Pb(Zr1â^'xTix)O3 on a Single Substrate Using a Modified Molecular Beam Epitaxy Technique. Materials Research Society Symposia Proceedings, 2007, 1034, 134. | 0.1 | 0 |
| 40 | CO Oxidation on Gold in Acidic Environments:â€‰ Particle Size and Substrate Effects. Journal of Physical Chemistry C, 2007, 111, 17044-17051. | 1.5 | 59 |
| 41 | Enhanced Activity for Electrocatalytic Oxidation of Carbon Monoxide on Titania-Supported Gold Nanoparticles. Angewandte Chemie - International Edition, 2007, 46, 3530-3532. | 7.2 | 66 |
| 42 | A Combinatorial Approach to the Study of Particle Size Effects on Supported Electrocatalysts: Oxygen Reduction on Gold. ACS Combinatorial Science, 2006, 8, 679-686. | 3.3 | 81 |
| 43 | High-Throughput Synthesis and Screening of Ternary Metal Alloys for Electrocatalysis. Journal of Physical Chemistry B, 2006, 110, 14355-14362. | 1.2 | 71 |
| 44 | Physical Vapor Deposition Method for the High-Throughput Synthesis of Solid-State Material Libraries. ACS Combinatorial Science, 2006, 8, 66-73. | 3.3 | 94 |
| 45 | Combinatorial Approach to the Study of Particle Size Effects in Electrocatalysis: Synthesis of Supported Gold Nanoparticles. ACS Combinatorial Science, 2006, 8, 791-798. | 3.3 | 38 |
| 46 | The stability and electro-oxidation of carbon monoxide on model electrocatalysts: Pt(111)â€“Sn(2Ã—2) and Pt(111)â€“Sn(âˆš3Ã—âˆš3)R30Â°. Journal of Molecular Catalysis A, 2005, 228, 55-65. | 4.8 | 10 |
| 47 | Material Optimisation for Optical Data Storage. , 2005, , . | | 0 |
| 48 | Electrocatalytic Reduction of Nitrate on Activated Rhodium Electrode Surfaces. Journal of Applied Electrochemistry, 2004, 34, 781-796. | 1.5 | 73 |
| 49 | Combinatorial Electrochemical Screening of Fuel Cell Electrocatalysts.. ChemInform, 2004, 35, no. | 0.1 | 1 |
| 50 | Combinatorial Electrochemical Screening of Fuel Cell Electrocatalysts. ACS Combinatorial Science, 2004, 6, 149-158. | 3.3 | 164 |
| 51 | Electro-oxidation of Carbon Monoxide on Well-Ordered Pt(111)/Sn Surface Alloys. Journal of the American Chemical Society, 2003, 125, 7738-7742. | 6.6 | 100 |
| 52 | The dynamics of the dissociative adsorption of methane on Pt(533). Journal of Chemical Physics, 2003, 118, 3334-3341. | 1.2 | 48 |
| 53 | Direct and indirect channels to molecular dissociation at metal and metal alloy surfaces. Chemical Physics of Solid Surfaces, 2003, 11, 177-221. | 0.3 | 2 |
| 54 | Single-Crystal Surfaces as Model Platinum-Based Hydrogen Fuel Cell Electrocatalysts. , 2003, , . | | 0 |

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| 55 | The electro-oxidation of carbon monoxide on ruthenium modified Pt(). Surface Science, 2002, 496, 110-120. | 0.8 | 112 |
| 56 | The blocking of the step-mediated indirect channel to hydrogen dissociation by oxygen on Pt(533). Surface Science, 2002, 512, 165-172. | 0.8 | 26 |
| 57 | Vibrational Spectroscopy at Oxide Surfaces. Chemical Physics of Solid Surfaces, 2001, , 514-549. | 0.3 | 6 |
| 58 | Single crystal and high area titania supported rhodium: the interaction of supported Rh(CO)2 with NO. Journal of Molecular Catalysis A, 2001, 167, 33-46. | 4.8 | 22 |
| 59 | Electrode coatings from sprayed titanium dioxide nanoparticles â€“ behaviour in NaOH solutions. Electrochemistry Communications, 2001, 3, 390-394. | 2.3 | 35 |
| 60 | Platinum catalysed nanoporous titanium dioxide electrodes in H2SO4 solutions. Electrochemistry Communications, 2001, 3, 395-399. | 2.3 | 59 |
| 61 | The dynamics of O2 adsorption on Pt(533): Step mediated molecular chemisorption and dissociation. Journal of Chemical Physics, 2000, 113, 10333-10343. | 1.2 | 61 |
| 62 | The role of steps in the dynamics of hydrogen dissociation on Pt(533). Journal of Chemical Physics, 2000, 112, 7660-7668. | 1.2 | 101 |
| 63 | A comparison of the chemistry of RhI(acac)(CO)2 and RhI(CO)2Cl adsorbed on TiO2[110]: development of particulate Rh and oxidative disruption by CO. Surface Science, 2000, 462, 169-180. | 0.8 | 31 |
| 64 | The modification of Pt(110) by ruthenium: CO adsorption and electro-oxidation. Surface Science, 2000, 467, 118-130. | 0.8 | 87 |
| 65 | Substrate-Mediated Oxidation of Carbon Residues by TiO2{110}-Supported Model Catalysts:â€‰ Metal-, Precursor-, and Treatment-Dependent Labilization of Framework Oxygen. Journal of Physical Chemistry B, 2000, 104, 8548-8553. | 1.2 | 7 |
| 66 | Fourier Transform Reflectionâ^'Absorption IR Spectroscopy Study of Formate Adsorption on TiO2(110). Journal of Physical Chemistry B, 1999, 103, 203-208. | 1.2 | 147 |
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| 68 | The electrooxidation of carbon monoxide on ruthenium modified Pt(110). Electrochimica Acta, 1998, 44, 1181-1190. | 2.6 | 86 |
| 69 | The reaction of hydrogen with TiO2(110) supported rhodium gem-dicarbonyl. Surface Science, 1998, 397, 306-313. | 0.8 | 31 |
| 70 | In Situ STM Study of CdTe ECALE Bilayers on Gold. Journal of Physical Chemistry B, 1998, 102, 4897-4905. | 1.2 | 37 |
| 71 | In-Situ STM Study of Te UPD Layers on Low Index Planes of Gold. Journal of Physical Chemistry B, 1997, 101, 7751-7757. | 1.2 | 31 |
| 72 | The promotion of CO electro-oxidation on platinum-bismuth as a model for surface mediated oxygen transfer. Catalysis Today, 1997, 38, 473-481. | 2.2 | 19 |

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| 73 | The alignment of a surface species determined by FT-RAIRS: rhodium gem-dicarbonyl on TiO2(110). Chemical Physics Letters, 1997, 269, 485-488. | 1.2 | 27 |
| 74 | The Structure and Reactivity of TiO2(110) Supported Palladium and Rhodium. , 1997, , 215-235. | | 3 |
| 75 | The adsorption of carbon monoxide on TiO2(110) supported palladium. Surface Science, 1996, 360, 61-73. | 0.8 | 66 |
| 76 | Adsorption and thermal decomposition of Mo(CO)6 on TiO2(110). Journal of the Chemical Society, Faraday Transactions, 1996, 92, 4733. | 1.7 | 20 |
| 77 | UHV and electrochemical transfer studies on Pt(110)-(1 Ã— 2) : the influence of bismuth on hydrogen and oxygen adsorption, and the electro-oxidation of carbon monoxide. Journal of Electroanalytical Chemistry, 1996, 409, 51-63. | 1.9 | 57 |
| 78 | The indirect channel to hydrogen dissociation on W(100)-c(2Ã—2)Cu. Evidence for a dynamical precursor. Chemical Physics Letters, 1995, 232, 542-546. | 1.2 | 22 |
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| 81 | Rotational excitation in scattering of hyperthermal NO from Pt(111). Journal of Chemical Physics, 1995, 102, 3835-3847. | 1.2 | 26 |
| 82 | Precursor dynamics in dissociative hydrogen adsorption on W (100). Chemical Physics Letters, 1994, 217, 423-429. | 1.2 | 44 |
| 83 | The mechanism of the poisoning of ammonia synthesis catalysts by oxygenates O2, CO and H2O: an in situ method for active surface determination. Catalysis Letters, 1994, 24, 197-210. | 1.4 | 30 |
| 84 | Promotion in ammonia synthesis: A pressure dependent phenomenon. Topics in Catalysis, 1994, 1, 43-61. | 1.3 | 5 |
| 85 | On the mechanism of poisoning and promotion of ammonia synthesis. Topics in Catalysis, 1994, 1, 295-301. | 1.3 | 14 |
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| 88 | Survival mechanism for rotational rainbows in highly attractive molecule-surface systems: NO scattering from Pt(111). Chemical Physics Letters, 1993, 216, 93-99. | 1.2 | 15 |
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| 90 | Rotational rainbows in NO scattering from Pt(111). Faraday Discussions, 1993, 96, 297. | 1.6 | 19 |

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| 96 | Adsorbate induced phase changes of rhodium on TiO2(110). Surface Science Letters, 1992, 279, L159-L164. | 0.1 | 1 |
| 97 | Vibrational and translational energy partition and the barrier to dissociative H2 and D2 adsorption on Cu(110). Surface Science, 1991, 243, 31-42. | 0.8 | 95 |
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| 99 | Hayden and Lamont reply. Physical Review Letters, 1990, 65, 2834-2834. | 2.9 | 3 |
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| 102 | Coupled translational-vibrational activation in dissociative hydrogen adsorption on Cu(110). Physical Review Letters, 1989, 63, 1823-1825. | 2.9 | 239 |
| 103 | Dissociative hydrogen adsorption and its reaction with oxygen on Cu(110). Journal of Physics Condensed Matter, 1989, 1, SB33-SB37. | 0.7 | 9 |
| 104 | Adsorbate-mediated resonant energy transfer during inelastic scattering from Cu(110). Chemical Physics Letters, 1989, 158, 18-23. | 1.2 | 2 |
| 105 | The energy and angular dependence of dissociative hydrogen adsorption on Cu(110). Chemical Physics Letters, 1989, 160, 331-334. | 1.2 | 61 |
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| 107 | An IR study of the Î£-CO CO-adsorption state in the system CO/H/Ni(100). Surface Science Letters, 1987, 183, L279-L284. | 0.1 | 0 |
| 108 | Molecular beam scattering of CO from Cu(110): the effect of incident translational energy. Journal of Electron Spectroscopy and Related Phenomena, 1987, 45, 351-359. | 0.8 | 14 |

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| 110 | An IR reflection-absorption study of the CO/Ni(100) adsorption system. Journal of Electron Spectroscopy and Related Phenomena, 1986, 38, 187-195. | 0.8 | 33 |
| 111 | An infrared spectroscopic study of CO on Cu(111): The linear, bridging and physisorbed species. Surface Science, 1985, 155, 553-566. | 0.8 | 127 |
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| 114 | Photoemission band mapping via surface umklapp. Solid State Communications, 1984, 52, 937-940. | 0.9 | 19 |
| 115 | The adsorption of NO on Ru(001) and its co-adsorption with oxygen studied by vibrational spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 1983, 29, 261. | 0.8 | 6 |
| 116 | The adsorption of CO on Pt(111) studied by infrared-reflection-adsorption spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 1983, 30, 51. | 0.8 | 14 |
| 117 | A high resolution vibrational spectroscopic study of the formate intermediate on Cu(110). Vacuum, 1983, 33, 876-877. | 1.6 | 6 |
| 118 | Alkali metal-induced reconstruction of Ag(110). Solid State Communications, 1983, 48, 325-328. | 0.9 | 203 |
| 119 | An iras study of formic acid and surface formate adsorbed on Cu(110). Surface Science, 1983, 133, 589-604. | 0.8 | 204 |
| 120 | Ellipsometric evidence for optical anisotropy of oxygen covered silver (110) surfaces. Surface Science, 1983, 135, 374-382. | 0.8 | 9 |
| 121 | An infra-red reflection absorption study of the adsorption of NO on Pt(111). Surface Science, 1983, 131, 419-432. | 0.8 | 190 |
| 122 | A TPD and IR study of co-adsorption of NO and oxygen on Ru(001). Surface Science, 1983, 125, 366-376. | 0.8 | 58 |
| 123 | Infrared-Active Combination Band in a Surface Formate Species. Physical Review Letters, 1983, 51, 475-478. | 2.9 | 52 |
| 124 | ELLIPSOMETRIC STUDY OF OXYGEN ON A Ag(110) SURFACE AROUND THE PLASMA FREQUENCY OF SILVER. Journal De Physique Colloque, 1983, 44, C10-393-C10-393. | 0.2 | 0 |
| 125 | Ellipsometric study of oxygen on a Ag(110) surface around the plasma frequency of silver. Surface Science, 1982, 118, 649-658. | 0.8 | 12 |
| 126 | Dipole coupling and chemical shifts in IRAS of CO adsorbed on Cu(110). Surface Science, 1982, 123, 397-412. | 0.8 | 209 |

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| 127 | Application of spectroscopic ellipsometry to the adsorption of oxygen on silver (110). Surface Science, 1982, 117, 331-341. | 0.8 | 8 |
| 128 | Early stages in the oxidation of magnesium, aluminium and magnesium/aluminium alloys. Surface Science, 1981, 102, 207-226. | 0.8 | 53 |
| 129 | The early stages of oxidation of magnesium single crystal surfaces. Surface Science, 1981, 111, 26-38. | 0.8 | 98 |
| 130 | The interaction of oxygen with aluminium: Mainly ellipsometric aspects. Surface Science, 1981, 109, 207-220. | 0.8 | 56 |
| 131 | A Monte Carlo simulation of two-point adsorption on binary metal alloy surfaces. Surface Science, 1979, 80, 401-411. | 0.8 | 11 |
| 132 | Support and Particle Size Effects in Electrocatalysis. , 0, , 567-592. | | 7 |