

# Karl Malcolm

## List of Publications by Year in descending order

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77  
papers

2,631  
citations

159525

30  
h-index

197736

49  
g-index

77  
all docs

77  
docs citations

77  
times ranked

1777  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Advances in microbicide vaginal rings. <i>Antiviral Research</i> , 2010, 88, S30-S39.  | 1.9 | 158       |
| 2  | Long-term, controlled release of the HIV microbicide TMC120 from silicone elastomer vaginal rings. <i>Journal of Antimicrobial Chemotherapy</i> , 2005, 56, 954-956.   | 1.3 | 153       |
| 3  | Safety and Pharmacokinetics of Dapivirine Delivery From Matrix and Reservoir Intravaginal Rings to HIV-Negative Women. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2009, 51, 416-423.    | 0.9 | 142       |
| 4  | Intravaginal ring delivery of the reverse transcriptase inhibitor TMC 120 as an HIV microbicide. <i>International Journal of Pharmaceutics</i> , 2006, 325, 82-89.   | 2.6 | 139       |
| 5  | Drug Delivery by the Intravaginal Route. <i>Critical Reviews in Therapeutic Drug Carrier Systems</i> , 2000, 17, 47.   | 1.2 | 104       |
| 6  | Influence of silicone elastomer solubility and diffusivity on the in vitro release of drugs from intravaginal rings. <i>Journal of Controlled Release</i> , 2003, 90, 217-225.                               | 4.8 | 103       |
| 7  | Microbicide vaginal rings: Technological challenges and clinical development. <i>Advanced Drug Delivery Reviews</i> , 2016, 103, 33-56.  | 6.6 | 81        |
| 8  | A silicone elastomer vaginal ring for HIV prevention containing two microbicides with different mechanisms of action. <i>European Journal of Pharmaceutical Sciences</i> , 2013, 48, 406-415.                | 1.9 | 77        |
| 9  | A novel scalable manufacturing process for the production of hydrogel-forming microneedle arrays. <i>International Journal of Pharmaceutics</i> , 2015, 494, 417-429.  | 2.6 | 75        |
| 10 | Characterization of the Rheological, Mucoadhesive, and Drug Release Properties of Highly Structured Gel Platforms for Intravaginal Drug Delivery. <i>Biomacromolecules</i> , 2009, 10, 2427-2435.            | 2.6 | 68        |
| 11 | High speed DSC (hyper-DSC) as a tool to measure the solubility of a drug within a solid or semi-solid matrix. <i>International Journal of Pharmaceutics</i> , 2005, 301, 1-5.                                | 2.6 | 60        |
| 12 | Sustained Release of the CCR5 Inhibitors CMPD167 and Maraviroc from Vaginal Rings in Rhesus Macaques. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 2251-2258.                                    | 1.4 | 60        |
| 13 | Non-aqueous silicone elastomer gels as a vaginal microbicide delivery system for the HIV-1 entry inhibitor maraviroc. <i>Journal of Controlled Release</i> , 2011, 156, 161-169.                             | 4.8 | 53        |
| 14 | Pharmacokinetics and efficacy of a vaginally administered maraviroc gel in rhesus macaques. <i>Journal of Antimicrobial Chemotherapy</i> , 2013, 68, 678-683.  | 1.3 | 53        |
| 15 | Freeze-dried, mucoadhesive system for vaginal delivery of the HIV microbicide, dapivirine: Optimisation by an artificial neural network. <i>International Journal of Pharmaceutics</i> , 2010, 388, 136-143. | 2.6 | 48        |
| 16 | Sustained release of proteins from a modified vaginal ring device. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 77, 3-10.   | 2.0 | 48        |
| 17 | Development of liposome gel based formulations for intravaginal delivery of the recombinant HIV-1 envelope protein CN54gp140. <i>European Journal of Pharmaceutical Sciences</i> , 2012, 46, 315-322.        | 1.9 | 47        |
| 18 | Dapivirine-releasing vaginal rings produced by plastic freeforming additive manufacturing. <i>International Journal of Pharmaceutics</i> , 2019, 572, 118725.  | 2.6 | 47        |

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|----|--|-----|-----------|
| 19 | In vitro release of nonoxynol-9 from silicone matrix intravaginal rings. <i>Journal of Controlled Release</i> , 2003, 91, 355-364.   | 4.8 | 46        |
| 20 | Vaginal delivery of the recombinant HIV-1 clade-C trimeric gp140 envelope protein CN54gp140 within novel rheologically structured vehicles elicits specific immune responses. <i>Vaccine</i> , 2009, 27, 6791-6798.      | 1.7 | 46        |
| 21 | Development and evaluation of a vaginal ring device for sustained delivery of HIV microbicides to non-human primates. <i>Journal of Medical Primatology</i> , 2009, 38, 263-271.   | 0.3 | 43        |
| 22 | Matrix and reservoir-type multipurpose vaginal rings for controlled release of dapivirine and levonorgestrel. <i>International Journal of Pharmaceutics</i> , 2016, 511, 619-629.  | 2.6 | 42        |
| 23 | Persistence of antimicrobial activity through sustained release of triclosan from pegylated silicone elastomers. <i>Biomaterials</i> , 2009, 30, 6739-6747.  | 5.7 | 40        |
| 24 | A modified SILCS contraceptive diaphragm for long-term controlled release of the HIV microbicide dapivirine. <i>Contraception</i> , 2013, 88, 58-66.   | 0.8 | 39        |
| 25 | Pre-clinical development of a combination microbicide vaginal ring containing dapivirine and darunavir. <i>Journal of Antimicrobial Chemotherapy</i> , 2014, 69, 2477-2488.  | 1.3 | 37        |
| 26 | Partial protection against multiple RT-SHIV162P3 vaginal challenge of rhesus macaques by a silicone elastomer vaginal ring releasing the NNRTI MC1220. <i>Journal of Antimicrobial Chemotherapy</i> , 2013, 68, 394-403. | 1.3 | 36        |
| 27 | Microbicide delivery: formulation technologies and strategies. <i>Current Opinion in HIV and AIDS</i> , 2008, 3, 558-566.  | 1.5 | 35        |
| 28 | Vaginal rings with exposed cores for sustained delivery of the HIV CCR5 inhibitor 5P12-RANTES. <i>Journal of Controlled Release</i> , 2019, 298, 1-11.   | 4.8 | 34        |
| 29 | Development of disulfiram-loaded vaginal rings for the localised treatment of cervical cancer. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2014, 88, 945-953.  | 2.0 | 32        |
| 30 | Controlling levonorgestrel binding and release in a multi-purpose prevention technology vaginal ring device. <i>Journal of Controlled Release</i> , 2016, 226, 138-147.  | 4.8 | 31        |
| 31 | Llama Antibody Fragments Have Good Potential for Application as HIV Type 1 Topical Microbicides. <i>AIDS Research and Human Retroviruses</i> , 2012, 28, 198-205.  | 0.5 | 30        |
| 32 | Efficacy of Tenofovir 1% Vaginal Gel in Reducing the Risk of HIV-1 and HSV-2 Infection. <i>Clinical Medicine Insights Women's Health</i> , 2014, 7, CMWH.S10353.   | 0.6 | 30        |
| 33 | Potential Use of Vaginal Rings for Prevention of Heterosexual Transmission of HIV. <i>American Journal of Drug Delivery</i> , 2006, 4, 7-20.   | 0.6 | 29        |
| 34 | Intravaginal immunization using the recombinant HIV-1 clade-C trimeric envelope glycoprotein CN54gp140 formulated within lyophilized solid dosage forms. <i>Vaccine</i> , 2011, 29, 4512-4520.                           | 1.7 | 27        |
| 35 | Self-lubricating silicone elastomer biomaterials. <i>Journal of Materials Chemistry</i> , 2003, 13, 2465.  | 6.7 | 26        |
| 36 | Characterization of silicone elastomer vaginal rings containing HIV microbicide TMC120 by Raman spectroscopy. <i>Journal of Pharmacy and Pharmacology</i> , 2010, 59, 203-207.   | 1.2 | 24        |

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|----|--|-----|-----------|
| 37 | A dynamic mechanical method for determining the silicone elastomer solubility of drugs and pharmaceutical excipients in silicone intravaginal drug delivery rings. <i>Biomaterials</i> , 2002, 23, 3589-3594.                        | 5.7 | 23        |
| 38 | Towards a dapivirine and levonorgestrel multipurpose vaginal ring: Investigations into the reaction between levonorgestrel and addition-cure silicone elastomers. <i>International Journal of Pharmaceutics</i> , 2019, 569, 118574. | 2.6 | 22        |
| 39 | Mechanical testing methods for drug-releasing vaginal rings. <i>International Journal of Pharmaceutics</i> , 2019, 559, 182-191.   | 2.6 | 22        |
| 40 | Development of polylactide and polyethylene vinyl acetate blends for the manufacture of vaginal rings. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012, 100B, 891-895.                          | 1.6 | 21        |
| 41 | Disulfiram-loaded immediate and extended release vaginal tablets for the localised treatment of cervical cancer. <i>Journal of Pharmacy and Pharmacology</i> , 2015, 67, 189-198.  | 1.2 | 21        |
| 42 | Modified Silicone Elastomer Vaginal Gels for Sustained Release of Antiretroviral HIV Microbicides. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 1422-1432.   | 1.6 | 20        |
| 43 | In vitro release testing methods for drug-releasing vaginal rings. <i>Journal of Controlled Release</i> , 2019, 313, 54-69.  | 4.8 | 20        |
| 44 | Preformulation and Development of a Once-Daily Sustained-Release Tenofovir Vaginal Tablet Tablet Containing A Single Excipient. <i>Journal of Pharmaceutical Sciences</i> , 2013, 102, 1859-1868.                                    | 1.6 | 19        |
| 45 | Packing Polymorphism of Dapivirine and Its Impact on the Performance of a Dapivirine-Releasing Silicone Elastomer Vaginal Ring. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 2015-2025.                                    | 1.6 | 19        |
| 46 | Intravaginal immunisation using a novel antigen-releasing ring device elicits robust vaccine antigen-specific systemic and mucosal humoral immune responses. <i>Journal of Controlled Release</i> , 2017, 249, 74-83.                | 4.8 | 18        |
| 47 | Impact of ring size and drug loading on the pharmacokinetics of a combination dapivirine-darunavir vaginal ring in cynomolgus macaques. <i>International Journal of Pharmaceutics</i> , 2018, 550, 300-308.                          | 2.6 | 18        |
| 48 | Pharmacokinetics of UC781-loaded intravaginal ring segments in rabbits: a comparison of polymer matrices. <i>Drug Delivery and Translational Research</i> , 2011, 1, 238-246.  | 3.0 | 16        |
| 49 | Development of a UC781 releasing polyethylene vinyl acetate vaginal ring. <i>Drug Delivery and Translational Research</i> , 2012, 2, 489-497.  | 3.0 | 16        |
| 50 | A Temperature-Monitoring Vaginal Ring for Measuring Adherence. <i>PLoS ONE</i> , 2015, 10, e0125682.   | 1.1 | 16        |
| 51 | The ins and outs of drug-releasing vaginal rings: a literature review of expulsions and removals. <i>Expert Opinion on Drug Delivery</i> , 2020, 17, 1519-1540.  | 2.4 | 16        |
| 52 | Vaginal Microbicides for the Prevention of HIV Transmission. <i>Biotechnology and Genetic Engineering Reviews</i> , 2004, 21, 81-122.  | 2.4 | 14        |
| 53 | Controlled-release vaginal ring drug-delivery systems: a key strategy for the development of effective HIV microbicides. <i>Therapeutic Delivery</i> , 2010, 1, 785-802.   | 1.2 | 14        |
| 54 | Characterisation of protein stability in rod-insert vaginal rings. <i>International Journal of Pharmaceutics</i> , 2012, 430, 89-97.   | 2.6 | 14        |

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|----|--|-----|-----------|
| 55 | Delivering on MPTs: addressing the needs, rising to the challenges and making the opportunities. <i>Contraception</i> , 2013, 88, 321-325.   | 0.8 | 14        |
| 56 | Sustained release of the candidate antiretroviral peptides T-1249 and JNJ54310516-AFP from a rod insert vaginal ring. <i>Drug Delivery and Translational Research</i> , 2016, 6, 234-242.  | 3.0 | 14        |
| 57 | The Vaginal Microbiota, Bacterial Biofilms and Polymeric Drug-Releasing Vaginal Rings. <i>Pharmaceutics</i> , 2021, 13, 751.   | 2.0 | 13        |
| 58 | Drug stability and product performance characteristics of a dapivirine-releasing vaginal ring under simulated real-world conditions. <i>International Journal of Pharmaceutics</i> , 2019, 565, 351-357.   | 2.6 | 12        |
| 59 | Lack of in vitro–in vivo correlation for a UC781-releasing vaginal ring in macaques. <i>Drug Delivery and Translational Research</i> , 2015, 5, 27-37.   | 3.0 | 11        |
| 60 | Pharmacokinetics of the Protein Microbicide 5P12-RANTES in Sheep following Single-Dose Vaginal Gel Administration. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .  | 1.4 | 11        |
| 61 | Solid state <sup>13</sup> C NMR spectroscopy provides direct evidence for reaction between ethinyl estradiol and a silicone elastomer vaginal ring drug delivery system. <i>International Journal of Pharmaceutics</i> , 2018, 548, 689-697.     | 2.6 | 11        |
| 62 | Intravaginal rings for continuous low-dose administration of cervical ripening agents. <i>International Journal of Pharmaceutics</i> , 2018, 549, 124-132.   | 2.6 | 10        |
| 63 | Rheological evaluation of the isothermal cure characteristics of medical grade silicone elastomers. <i>Journal of Applied Polymer Science</i> , 2010, 116, 2320-2327.  | 1.3 | 9         |
| 64 | Development and pharmacokinetics of a combination vaginal ring for sustained release of dapivirine and the protein microbicide 5P12-RANTES. <i>International Journal of Pharmaceutics</i> , 2019, 564, 207-213.                                  | 2.6 | 8         |
| 65 | Recent advances in electrospun nanofiber vaginal formulations for women's sexual and reproductive health. <i>International Journal of Pharmaceutics</i> , 2021, 607, 121040.   | 2.6 | 8         |
| 66 | Release kinetics of oleyl alcohol from a self-lubricating silicone biomaterial. <i>Journal of Materials Chemistry</i> , 2004, 14, 1093.  | 6.7 | 7         |
| 67 | Post-use ring weight and residual drug content as potential objective measures of user adherence to a contraceptive progesterone vaginal ring. <i>Contraception</i> , 2019, 100, 241-246.  | 0.8 | 7         |
| 68 | Silicone elastomer formulations for improved performance of a multipurpose vaginal ring releasing dapivirine and levonorgestrel. <i>International Journal of Pharmaceutics: X</i> , 2021, 3, 100091.   | 1.2 | 6         |
| 69 | Development of a microbicide-releasing diaphragm as an HIV prevention strategy. , 2010, 2010, 1089-92.   |     | 5         |
| 70 | Effect of the incorporation of hydroxy-terminated liquid silicones on the cure characteristics, morphology, and release of a model protein from silicone elastomer-covered rods. <i>Journal of Applied Polymer Science</i> , 2012, 124, 805-812. | 1.3 | 5         |
| 71 | Use of simulated vaginal and menstrual fluids to model in vivo discolouration of silicone elastomer vaginal rings. <i>International Journal of Pharmaceutics: X</i> , 2021, 3, 100081.   | 1.2 | 5         |
| 72 | The effect of freeze-drying parameters on the cure characteristics of freeze-dried BSA-loaded silicone elastomer. <i>Journal of Applied Polymer Science</i> , 2013, 127, 4402-4408.  | 1.3 | 1         |

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|----|--|-----|-----------|
| 73 | A Combination Vaginal Ring Releasing Dapivirine and Darunavir. <i>AIDS Research and Human Retroviruses</i> , 2014, 30, A12-A13.  | 0.5 | 1         |
| 74 | Refining the in vitro release test method for a dapivirine-releasing vaginal ring to match in vivo performance. <i>Drug Delivery and Translational Research</i> , 2021, , 1.   | 3.0 | 1         |
| 75 | Vaccine Delivery Systems: Roles, Challenges and Recent Advances. , 2014, , 743-752.  |     | 0         |
| 76 | In vitro drug release, mechanical performance and stability testing of a custom silicone elastomer vaginal ring releasing dapivirine and levonorgestrel. <i>International Journal of Pharmaceutics: X</i> , 2022, 4, 100112. | 1.2 | 0         |
| 77 | Color, Scent and Size: Exploring Women's Preferences Around Design Characteristics of Drug-Releasing Vaginal Rings. <i>AIDS and Behavior</i> , 2022, , 1.  | 1.4 | 0         |