Table sort by year (most recent on top)

Year	DOI	Adsorbent
2020	https://doi.org/10.1016/j.chemosphere.2020.125862	carbons: ordered mesoporous carbon (OMC), activated carbon fiber (ACF) and granular activated carbon (GAC)
2020	https://doi.org/10.1016/j.energy.2019.116774	activated carbon-graphene composite
2020	https://doi.org/10.3390/ma13040917	Raw and Calcined Halloysite
2020	https://doi.org/10.1016/j.seppur.2019.115831	CMS, 5A
2020	https://doi.org/10.1016/j.micromeso.2019.109916	mesoporous silica MCM-41 and SBA-15 impregnated by Imidazolium based ionic liquids
2020	https://doi.org/10.22146/ijc.38978	Zeolite-Y Templated Carbon
2020	https://doi.org/10.1007/s11356-020-07830-4	AC from Pinus canariensis cones

2020	https://doi.org/10.1126/sciadv.aaz4322	phosphate-anion pillared MOF ZnAtzPO4
2020	https://doi.org/10.1021/acs.iecr.9b06294	Anion-Pillared Metal–Organic Frameworks
2019	https://doi.org/10.1016/j.jcou.2019.03.001	three-dimensionally ordered micromesoporous carbon
2019	https://doi.org/10.1038/s42004-019-0144-1	SAPO-34
2019	https://doi.org/10.1016/j.micromeso.2019.04.004	imidazolium-based ionic liquids confined into HKUST-1 frameworks
2019	https://doi.org/10.1016/j.seppur.2018.11.069	carbon molecular sieve pellets
2018	https://doi.org/10.1021/acs.iecr.8b04076	Zeolites NaX, KA, and CaA and Activated Alumina
2018	https://doi.org/10.1115/1.4040530	Shale
2018	https://doi.org/10.1007/s10450-018-9935-4	MCM-36 zeolite functionalized by acidic ionic liquid

2018	https://doi.org/10.1016/j.micromeso.2018.04.007	13X
2018	https://doi.org/10.1016/j.jngse.2017.11.016	13X, 5A
2017	https://doi.org/10.1016/j.ijheatmasstransfer.2016.12.114	AC powder
2017	https://doi.org/10.3390/en10050661	Coal
2017	https://doi.org/10.1016/j.jcou.2017.01.029	MOF Zn4(pydc)4(DMF)2·3DMF (1)
2017	https://doi.org/10.1021/acsami.7b08117	HKUST-1, HKUST-1@SBA-15 composites
2017	https://doi.org/10.1016/j.micromeso.2017.01.015	zeolites (types AQSOA-Z01, Z02 and Z05)
2016	https://doi.org/10.3906/kim-1507-95	chemically modified activated carbons
2016	https://doi.org/10.1039/c5ta08261g	MOF

2016	https://doi.org/10.1016/j.micromeso.2015.09.035	hierarchical SAPO-34 constructed by nano-sheets
2016	https://doi.org/10.1080/01496395.2015.1085880	natural, untreated clinoptilolite
2016	https://doi.org/10.1515/ijcre-2015-0124	CMS
2016	https://doi.org/10.1016/j.cej.2015.07.055	Porous MgO(chemisorption)
2016	https://doi.org/10.1002/cjce.22389	Athabasca oil sands solids
2015	https://doi.org/10.1016/j.cej.2015.02.065	diatomite/MFI-type zeolite composites
2015	https://doi.org/10.1016/j.jes.2014.10.015	ordered mesoporous carbon
2015	https://doi.org/10.1007/s10450-015-9649-9	Chinese dry coal
2015	https://doi.org/10.1016/j.ijheatmasstransfer.2014.10.012	phenol resin based adsorbents

2015	https://doi.org/10.1016/j.energy.2014.11.022	MIL-101Cr
2015	https://doi.org/10.1016/j.applthermaleng.2014.12.001	packed multi-walled carbon nanotubes
2014	https://doi.org/10.1016/j.cej.2014.02.057	phosphonium ionic liquid modified silica
2014	https://doi.org/10.1021/cm403697m	MOF NPC-4
2014	https://doi.org/10.1021/ie502928y	CMS-131510
2014	https://doi.org/10.1016/j.cej.2014.06.091	mesoporous silica MCM-41
2014	https://doi.org/10.1016/j.ijheatmasstransfer.2014.02.046	parent and surface treated activated carbon powders
2014	https://doi.org/10.1007/s13738-013-0347-9	MIL-101, AC
2014	https://doi.org/10.1007/s10098-014-0788-6	biomass derived activated carbon

2013	https://doi.org/10.2478/gospo-2013-0042	Coal
2013	https://doi.org/10.1007/s10934-012-9612-z	MIL-53(Al)
2013	https://doi.org/10.1021/am400122r	Structured zeolite 13X monoliths
2013	https://doi.org/10.1016/j.fuproc.2012.09.017	fly ash based composites of MEA/DMA and DEA/DMA
2012	https://doi.org/10.1016/j.micromeso.2011.07.016	CMS, commercial ATMI carbons
2011	https://doi.org/10.1016/j.jhazmat.2011.09.019	Hierarchically structured carbon–silica aerogel (CSA) composites
2011	https://doi.org/10.1016/j.cej.2011.07.051	MIL-101
2011	https://doi.org/10.1080/01496395.2011.557026	Zn-BDC-MOFs
2011	https://doi.org/10.1021/ef101548g	Chromium Terephthalate MIL-101 crystal

2010	https://doi.org/10.1016/j.coal.2009.03.007	Coal
2010	https://doi.org/10.1016/j.carbon.2009.12.001	chemically-activated ultramicroporous carbon
2010	https://doi.org/10.1016/j.memsci.2009.08.045	CMS MSC3K-162 Takeda
2010	https://doi.org/10.1007/s10450-010-9213-6	Silicalite-1
2010	https://doi.org/10.1080/01496390903571192	Zeolite 13X and Activated Carbon
2009	https://doi.org/10.1016/j.micromeso.2009.04.029	5A-zeolite and ZSM-5
2009	https://doi.org/10.1038/nchem.333	MOF 1-ppz
2009	https://doi.org/10.1007/s10450-009-9185-6	mesoporous silica
2009	https://doi.org/10.1016/j.ces.2009.03.017	MCM-41 silica

2009	https://doi.org/10.1021/ie900665f	MOF crystals
2008	https://doi.org/10.1007/s10973-008-9357-8	zeolitic tuff rich in clinoptilolite
2008	https://doi.org/10.1021/ie701701d	(LDH) Calcined Layered Double Hydroxides
2008	https://doi.org/10.1021/ie0713240	Carbon Nanotubes, Activated Carbon
2007	https://doi.org/10.1039/B700358G	Pure silica ITQ-32 zeolite, pure silica chabazite
2007	https://doi.org/10.1016/S0167-2991(07)80939-6	FAU zeolites
2007	https://doi.org/10.1021/jp070815v	Activated Carbon
2007	https://doi.org/10.1021/ja710144k	mixed zinc/copper MOF
2007	https://doi.org/10.1021/la702466d	MOF-177

2006	https://doi.org/10.1016/j.ces.2005.08.033	SWS-1L (calcium chloride confined to mesoporous silica gel)
2006	https://doi.org/10.1021/jp060748p	CMS Takeda 3A
2006	https://doi.org/10.1016/j.carbon.2005.10.020	Activated Carbon BAX950
2006	https://doi.org/10.1016/j.ces.2005.11.058	zeolite 4A honeycomb monolith
2006	https://doi.org/10.1016/j.ijheatmasstransfer.2006.02.029	activated carbon fiber
2005	https://doi.org/10.1016/j.apsusc.2004.12.028	silicalite-1
2005	https://doi.org/10.1016/j.fluid.2005.03.024	Silicalite-1
2005	https://doi.org/10.1016/j.micromeso.2004.08.017	CMS
2005	https://doi.org/10.1021/ef050072h	Takeda CMS 3K-161 pellet

2005	https://doi.org/10.1080/01496390500287846	Takeda CMS 3K pellet
2005	https://doi.org/10.1021/jp0509764	Mesoporous Silica Fibers
2004	https://doi.org/10.1016/j.micromeso.2004.04.020	MCM-41, MCM-48
2004	https://doi.org/10.1023/B:ADSO.0000039867.14756.ac	4A and CaX pellets
2003	https://doi.org/10.1021/jp026764d	MCM-41, Precipitated Silica M001
2003	https://doi.org/10.1021/jp030708	LTL and ZSM-12 Zeolite crystals
2002	https://doi.org/10.1021/ie010546+	Olesorb-1 (Ag+-impregnated clay-based alkene- selective adsorbent)
2001	https://doi.org/10.1021/jp0108263	CMS
2001	https://doi.org/10.1021/ja0109895	MOF Ni2(4,4'-bipyridine)3(NO3)4

2001	https://doi.org/10.1007/BF02698301	13X bead
2000	https://doi.org/10.1023/A:1008947132186	Aluminophosphate Molecular Sieve AlPO4-11

Adsorbate	Temperature, K	Instrument
hexamethyldisiloxane	298 - 318	IGA-002, Hiden
ethanol	303 - 343	MSB-VG-S2, Rubotherm
CO_2, CH_4	313	IGA-001, Hiden
hydrocarbons (CH_4 and C_2H_4)	298	IGA-003, Hiden
CO_2	303, 313, 323	IGA, Hiden
H_2	303 - 323	Purpose built gravimetric system
CO_2	303	TA Instrument SDT Q-600

C2H4, C2H6	273, 298	IGA-100, Hiden
Propene and Propane	298	IGA-100, Hiden
CO2	293 - 323	IGA-100, Hiden
methanol, propane, ethane, propylene	303, 313	IGA-100, Hiden
CO2	303, 313, 323	IGA, Hiden
CO2, CO, and N2	298, 308, 318	magnetic suspension balance, Rubotherm
Methanol vapour	303.2	IGA-100, Hiden
water vapour	298	IGA-100B, Hiden
2,2,4-trimethylpentane	343	IGA-100, Hiden

CO_2, CH_4	323, 343	IsoSORP MIX FLOW, Rubotherm
CO_2	323, 343	customized Rubotherm gravimetric system
CO_2	303 - 343	magnetic suspension balance, Rubotherm
CH_4	298 - 313	IGA-001, Hiden
CO_2, N_2, CH_4	308 - 338	IGA 002, Hiden
CO_2	298	IGA-100, Hiden
water vapour	298 - 333	Purpose built gravimetric system
CO_2	298 - 473	IGA, Hiden
oxygen, nitrogen, carbon dioxide, and water and ethanol vapours	273 - 348	IGA, Hiden

CO2	298	IGA-100, Hiden
CO2, N2	298	IGA-001, Hiden
CH4, C2H6	288 - 318	IGA-003, Hiden
CO2	323 - 473	NETZSCH TGA (STA 409 PC/PG Luxx)
cyclohexane, toluene, and water	293 - 313	IGA, Hiden
benzene vapour	298	IGA-002, Hiden
benzene, cyclohexane and hexane	298 - 318	IGA-002, Hiden
CO2	293 - 353	MSB, branch not specified
Ethanol	303 - 343	MSB-VG-S2, Rubotherm

Ethanol	303 - 343	MSB-VG-S2, Rubotherm
NH3	298 - 308	magnetic suspension balance, Rubotherm
CO2	298 - 333	IGA-003, Hiden
CO2, CH4	195 - 290	IGA, Hiden
CH4, N2	303, 323, 343	magnetic suspension balance, Rubotherm
CO2	303 - 348	magnetic suspension balance, Rubotherm
Ethanol	303 - 343	MSB-VG-S2, Rubotherm
CO2	298 - 303	magnetic suspension balance, Rubotherm
CO2	298 - 373	EXSTAR TG/DTA 6300

CH4	291 - 331	Purpose built gravimetric system
xylene isomers and ethylbenzene	303 - 373	IGA, Hiden
CO2	303	magnetic suspension balance, Rubotherm
CO2	306 - 333	TGA 701 analyzer (Leco)
CO2	Not specified	VTI Corp.(now TA) GHP-300 Gravimetric Magnetic Suspension Balance
benzene	308	IGA-002, Hiden
p-xylene	288 - 318	IGA-003, Hiden
CO2	299.8	TA Instrument TGA SDT Q600
CO2	298 - 328	magnetic suspension balance, Rubotherm

CO_2, CH_4	283 - 333	magnetic suspension balance, Rubotherm
H_2	298 - 353	IGA-01, Hiden
O_2, CO_2, Ar, N_2	302.65	magnetic suspension balance, Rubotherm
cyclohexane	323 - 498	Setaram
CO_2	298 - 328	magnetic suspension balance, Rubotherm
n-Alkanes	371 - 481	magnetic suspension balance, Rubotherm
H_2	80.6 - 83.9	IGA, Hiden
CO_2	298	Rubotherm gravimetric-densimetric apparatus
CO_2	298	Rubotherm gravimetric-densimetric apparatus

CO_2	296 - 332	Cahn D-101 microbalance
Water vapour	291	Cahn 2000
CO_2	473	Cahn TGA 121
Water vapour	293	Cahn DRB-200
C4 hydrocarbons	298 - 363	IGA-3, Hiden
thiophene, benzene, n-octane, and 1-octene	302 - 373	IGA, Hiden
Water vapour	298	IGA, Hiden
H_2, D_2	77.3, 87.3	IGA, Hiden
H_2O vapour	298	Not specified

Water vapour	306 - 343	Cahn microbalance
H2, D2	77	IGA, Hiden
Water, Benzene, Methanol, n-Octane	298 - 308	IGA, Hiden
propane and propylene	423, 473	magnetic suspension balance, Rubotherm
ethanol	300 - 333	Cahn TG 2121
cyclopentane	254 - 423	IGA, Hiden
hydrocarbons (cyclopentane, cyclohexane, benzene, and p-xylene)	303	IGA, Hiden
CO2, CH4, O2, N2	298	CI Electronics vacuum microbalance
CO2, CH4	308	magnetic suspension balance, Rubotherm

CH_4, N_2	298, 308, 323	magnetic suspension balance, Rubotherm
CO_2, C_2H_4	301	Cahn C-1000 microbalance
trichloroethylene	303	Purpose built gravimetric system
CO_2	273 - 313	Cahn 2000
N_2, n-nonane, and α-pinene	77(N_2), 313(n-nonane and α-pinene)	IGA, Hiden
Alkanes	373, 523	Modified TGA Perkin-Elmer TGA7
C_2H_4, C_2H_6, C_3H_6, C_3H_8	303	Cahn 1100 microbalance
C_6H_6, CO, N_2, C_2H_2, C_2H_4, CH_4, CS_2	273 - 393	IGA, Hiden
Methanol vapour, CO_2, N_2O	273, 278	IGA, Hiden

Water vapour	298, 308, 318	Purpose built gravimetric system
p-Xylene and o-Xylene	333 - 373	Cahn 2000

Variable pressure/ Flow-with carrier/ Flow-with purge/ Flow-pure adsorbate	Direct link-symmetric/ Direct link-asymmetric/ Magnetic suspension (asymmetric)
Variable pressure	Direct link-asymmetric
Variable pressure	Magnetic suspension (asymmetric)
Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Flow-pure adsorbate, 1 bar H2	Direct link-asymmetric
Purge, N2	Direct link-symmetric

Purge, He	Direct link-asymmetric
Not specified	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Magnetic suspension (asymmetric)
Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric

Variable pressure	Magnetic suspension (asymmetric)
Variable pressure	Magnetic suspension (asymmetric)
Variable pressure	Magnetic suspension (asymmetric)
Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Not specified	Direct link-asymmetric
Carrier, N_2	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric

Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Carrier, N2	Direct link-asymmetric
Carrier, N2	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Magnetic suspension (asymmetric)
Variable pressure	Magnetic suspension (asymmetric)

Variable pressure	Magnetic suspension (asymmetric)
Variable pressure	Magnetic suspension (asymmetric)
Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Magnetic suspension (asymmetric)
Variable pressure	Magnetic suspension (asymmetric)
Variable pressure	Magnetic suspension (asymmetric)
Variable pressure	Magnetic suspension (asymmetric)
Carrier, N2	Direct link-symmetric

Variable pressure	Direct link-symmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Magnetic suspension (asymmetric)
Purge, N2	Direct link-Multiple sample holder
Not specified	Magnetic suspension (asymmetric)
Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Carrier, N2	Direct link-symmetric
Variable pressure	Magnetic suspension (asymmetric)

Variable pressure	Magnetic suspension (asymmetric)
Variable pressure	Direct link-asymmetric
Variable pressure	Magnetic suspension (asymmetric)
Carrier, He	Direct link-symmetric
Variable pressure	Magnetic suspension (asymmetric)
Variable pressure	Magnetic suspension (asymmetric)
Variable pressure	Direct link-asymmetric
Variable pressure	Magnetic suspension (asymmetric)
Variable pressure	Magnetic suspension (asymmetric)

Purge, He	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Purge, Ar	Direct link-asymmetric
Carrier, N2	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Carrier, He	Direct link-asymmetric

Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Magnetic suspension (asymmetric)
From 30 mbar He to 60 mbar mixture	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Magnetic suspension (asymmetric)

Variable pressure	Magnetic suspension (asymmetric)
Purge, He	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Carrier, He	Direct link-asymmetric
Not specified	Direct link-asymmetric
Variable pressure	Direct link-asymmetric
Variable pressure	Direct link-asymmetric

Constant pressure, in air	Direct link-asymmetric
Variable pressure	Direct link-asymmetric

Model or multiple models Me = M at equilibrium; qe = q at equilibrium	Analytical or numerical solution?
Equation not given, LDF	Analytical
Constant c (1) LDF (2) Diffusion	Analytical
Constant c, Diffusion with simplied solution	Analytical
Constant c (1) Surface resistance (2) combined surface barrier + diffusion	Analytical
(1) Pseudo-first/second order (2) Avrami (3) Constant c, Diffusion	Analytical
(1) Pseudo-first/second order (2) Constant c, Intraparticle Diffusion	Analytical
(1) Constant c, LDF (2) Pseudo-second order	Analytical

Constant c, Diffusion	Analytical
Constant c, Diffusion	Analytical
Constant c, LDF	Analytical
Constant c, combined surface barrier + micropore diffusion	Analytical
(1) Pseudo-first/second order (2) Avrami (3) Constant c, Diffusion	Analytical
Constant c (1) Isothermal Diffusion (2) Non-isothermal Diffusion	Analytical
Constant c, Diffusion	Analytical
Constant c (1) Diffusion (2) LDF	Analytical
(1) Surface adsorption (2) Constant c, Diffusion (3) Interparticle Diffusion	Analytical

Constant c, LDF	Analytical
Constant c, LDF	Analytical
(1) Constant c, LDF (2) Modified LDF, with variable mass transfer coefficient	Analytical
Constant c, Diffusion	Analytical
Constant c (1) LDF (2) Diffusion	Analytical
Constant c, LDF	Analytical
Langmuirian adsorption-desorption model	Analytical
(1) Pseudo-first/second order (2) Constant c, Intraparticle Diffusion model	Analytical
(1)Constant c, LDF (2)Constant c, Diffusion (3) Finite system volume, combined surface barrier + diffusion (4) Stretched exponantial	Analytical

Constant c, Diffusion (M(t)/Me>70%)	Analytical
(1) Constant c, Diffusion (2) Linear concentration increase, Diffusion	Analytical
Constant c (1) LDF (2) Diffusion (3) combined surface barrier + diffusion	Analytical
(1) Pseudo-first/second order (2) Boyd's film-Diffusion model (3) Constant c, Diffusion (4) Constant c, Weber-Morris Intraparticle Diffusion model	Analytical
Constant c (1) LDF (2) Diffusion	Analytical
Constant c, LDF	Analytical
Constant c, LDF	Analytical
Constant c, Diffusion with simplified algorithm	Analytical
Constant c, Diffusion	Analytical

Constant c, Diffusion	Analytical
Constant c, Diffusion (M(t)/Me>70%)	Analytical
Constant c, Diffusion	Analytical
(1) Constant c, LDF (2) Constant c, Diffusion (3) Finite system volume, combined surface barrier + diffusion (4) Stretched exponantial	Analytical
Finite system volume, combined surface barrier + micropore diffusion, numerical solution	Numerical
(1) Pseudo-first/second order model (2) Constant c, Weber–Morris intraparticle Diffusion model (3) Boyd's film-Diffusion model (4) Constant c, diffusion	Analytical
Constant c, Diffusion	Analytical
Constant c, Diffusion	Analytical
(1) Pseudo-first/second order model (2) Linearized Intraparticle Diffusion model	Analytical

Constant c, Diffusion	Analytical
Equation not given	Analytical
Constant c, Diffusion	Analytical
Constant c, LDF	Analytical
Equation not given, LDF	Analytical
Constant c, LDF	Analytical
Constant c, Diffusion (q(t)/qe<70%)	Analytical
Constant c, Diffusion (q(t)/qe<70%)	Analytical
Constant c, LDF	Analytical

Constant c, Diffusion	Analytical
Constant c, LDF	Analytical
Constant c (1) Isothermal Diffusion (2) Non-isothermal Diffusion	Analytical
Constant c, Diffusion	Analytical
Constant c, LDF	Analytical
Constant c (1) Isothermal Diffusion (2) Non-isothermal Diffusion	Analytical
Double exponential model	Analytical
Constant c, LDF	Analytical
Constant c, LDF	Analytical

Constant c, Diffusion (q(t)/qe<70%)	Analytical
Constant c, Diffusion	Analytical
Constant c (1) Unipore Diffusion (2) Bipore Diffusion	Analytical
Constant c, LDF	Analytical
Constant c, Diffusion	Analytical
Equation not given	Analytical
(1) Double exponential model (2) Stretched exponential model	Analytical
Double exponential model	Analytical
Constant c, Diffusion	Analytical

Constant c, Diffusion	Analytical
Stretched exponential model	Analytical
(1) Constant c, LDF (2) Finite system volume, combined surface barrier + diffusion	Analytical
(1) Finite system volume, Diffusion (2) Constant c, Diffusion	Analytical
LDF, semi-infinite model	Analytical
Constant c, Diffusion	Analytical
Constant c, Diffusion	Analytical
Constant c, LDF	Analytical
Finite system volume, combined surface barrier + micropore diffusion	Numerical

Finite system volume, combined surface barrier + micropore diffusion	Numerical
Constant c, Diffusion	Analytical
Combined surface barrier + diffusion, numerical solution	Numerical
Constant c (1) Non-isothermal Diffusion (2) Non-isothermal Bidisperse Diffusion Model, numerical solution	Numerical for model (2)
Constant c, LDF	Analytical
Constant c, Diffusion	Analytical
Constant c, Diffusion	Analytical
(1) Constant c, LDF (2) Constant c, Diffusion (3) Finite system volume, combined surface barrier + diffusion	Analytical
(1) Constant c, LDF (2) Finite system volume, combined surface barrier + diffusion	Analytical

(1) Constant c, Diffusion (2) LDF (3)Vermeulen (4)Nakao & Suzuki	Numerical for model (2) (3) (4)
Equation not given, Isothermal Fickian transport Diffusion model with appropriate boundary conditions	Analytical

Variable concentration model used? Yes = variable concentration; No = constant concentration; n/a = not applicable	Model assumption: isotherm linearity. Yes = linear model; No = nonlinear model; n/a = not applicable	Model assumption: isothermal condition. Yes = isothermal model; No = non-isothermal model; Both = both isothermal and nonisothermal models used; n/a = not applicable
Not specified	n/a	Yes
No	Yes	Yes
No	Yes	Yes
No	Yes for model (2)	Yes
No for model (3)	Yes for model (3)	Yes for model (3)
n/a	n/a	n/a
No	n/a	Yes

No	Yes	Yes
No	Yes	Yes
No	n/a	Yes
No	Yes	Yes
No for model (3)	Yes for model (3)	Yes for model (3)
No	Yes	Both
No	Yes	Yes
No	Yes	Yes
No	Yes for model (2)	Yes for model (2)

No	n/a	Yes
No	n/a	Yes
No	No	Yes
No	Yes	Yes
No	Yes	Yes
No	n/a	Yes
n/a	n/a	n/a
n/a	n/a	n/a
Yes for model (3)	Yes	Yes

No	Yes	Yes
Yes for model (2)	Yes	Yes
No	Yes for model (2)	Yes
No for model (3)	Yes	Yes
No	Yes	Yes
No	n/a	Yes
No	n/a	Yes
No	Yes	Yes
No	Yes	Yes

No	Yes	Yes
No	Yes	Yes
No	Yes	Yes
Yes for model (3)	Yes	Yes
Yes	Yes	Yes
No	Yes	Yes
No	Yes	Yes
No	Yes	Yes
No	n/a	Yes

No	Yes	Yes
Not specified	Yes	Yes
No	Yes for model (2)	Yes
No	n/a	Yes
Not specified	n/a	Yes
No	n/a	Yes
No	Yes for model (2)	Yes
No	Yes	Yes
No	n/a	Yes

No	Yes	Yes
No	n/a	Yes
No	Yes for model (2)	Yes
No	Yes	Yes
No	n/a	Yes
No	Yes	Both
n/a	n/a	n/a
No	n/a	Yes
No	n/a	Yes

No	Yes	Yes
No	Yes	Yes
No	Yes	Yes
No	n/a	Yes
No	Yes	Yes
Not specified	Yes	Yes
n/a	n/a	n/a
n/a	n/a	n/a
No	Yes	Yes

No	Yes	Yes
n/a	n/a	n/a
Yes for model (2)	Yes	Yes
Yes for model (1)	Yes	Yes
No	n/a	Yes
No	Yes	Yes
No	Yes	Yes
No	n/a	Yes
Yes	Yes	Yes

Yes	Yes	Yes
No	Yes	Yes
not specified	Yes	Yes
No	Yes	No
No	n/a	Yes
No	Yes	Yes
No	Yes	Yes
Yes for model (3)	Yes for model (2)(3)	Yes
Yes for model (2)	Yes	Yes

no	Yes	Yes
Not specified	Yes for model (2)	Yes

Pressure range / Pressure Steps	Approximately linear conditions over the pressure steps? Yes, No or n/a = not enough information	Kinetic steps same step as equilibrium measurements? Yes, No, Not specified, n/a = only kinetic experiments
0 - 12 kPa / ~0.3 kPa	Yes	Yes
0 - 20 kPa / 2 - 6 kPa	No	Not specified
100 kPa / 100 kPa	Yes	Yes
8 kPa / 8 kPa	Yes	No, larger steps used
20 kPa / step not specified	n/a	Not specified
100 kPa / step not specified	n/a	n/a
101.325 kPa / step not specified	n/a	Not specified

40 kPa / 40 kPa	No	n/a
40 kPa / step not specified	n/a	n/a
0 - 2000 kPa / ~1 - 5 kPa	Yes	Yes
0.06 - 1 kPa / 0.06 - 1 kPa	Yes	No, larger steps used
20 kPa / 10 kPa	Yes	Yes
0 - 1000 kPa / 10 - 100 kPa	Yes	Yes
0 - 19.58 kPa / 0.78 kPa	No	Yes
(0.1 - 0.9P/P0) / (0.1P/P0) P0 not specified	Yes	Yes
4 kPa / 1 kPa	No	Yes

0 - 7000 kPa / 100 - 1000 kPa	No	Yes
0 - 15000 kPa / 1000 kPa	No	Yes
0 - 4000 kPa / ~400 kPa	No	Yes
0 - 1000 kPa / 1 - 700 kPa	n/a	Not specified
15 - 100 kPa / ~15 - 25 kPa	No	Yes
100 kPa / step not specified	n/a	n/a
Not specified	n/a	Yes
100 kPa / step not specified	n/a	Not specified
0 - 100 kPa / 0.1 - 100 kPa	Yes	Yes

100 kPa / step not specified	n/a	n/a
12.5 - 25 kPa / 12.5 - 25 kPa	Yes	Yes
20 - 495 kPa / 40 - 55 kPa	Yes	Yes
15 - 100 kPa / step not specified	n/a	n/a
0 - 10 kPa / 0.5 - 1 kPa	No	Yes
(0.00776 - 0.709P/P0) / (~0.007 - 0.07P/P0) P0 not specified	No	Yes
0 - ~9 kPa / ~0.25 kPa	No	Yes
0 - 19000 kPa / 2000 kPa	No	Yes
0 - 9 kPa / ~0.6 - 3 kPa	Yes	Yes

0 - 22 kPa / 0.6 - 6 kPa	Yes	Yes
368 - 744 kPa / step not specified	Yes	Not specified
10 - 200 kPa / 10 - 100 kPa	No	Yes
0 - 1100 kPa / 0.2 kPa - 100 kPa	Yes	Yes
0 - 100 kPa / ~20kPa	Yes	No, smaller steps used
20 - 1100 kPa / step not specified	n/a	n/a
0 - 20 kPa / 0.6 - 6 kPa	No	Yes
50 - 2000 kPa / step not specified	n/a	No / step not specified
Not specified	n/a	n/a

100 - 1700 kPa / 400 kPa	No	Yes
0 - 1.2 kPa / ~0.05 - 0.3 kPa	No	Yes
140 kPa / 135 kPa	No	n/a
101.3 kPa / 101.3 kPa	n/a	Not specified
26.7 kPa / ~7kPa	Yes	Yes
0 - ~24 kPa / ~1 kPa	No	Yes
0.3 - 0.6 kPa / step not specified	n/a	Not specified
60.8 kPa / 20 kPa	Yes	Yes
50 - 2000 kPa / step not specified	n/a	No / step not specified

100 - 5000 kPa / step not specified	n/a	n/a
100 - 1950 kPa / 400 kPa	No	Yes
0 - 700 kPa / 10 - 100 kPa	Yes	Yes
0.16 - 0.5 kPa / step not specified	n/a	Not specified
50 - 2000 kPa / step not specified	n/a	No / step not specified
0.03 - 1.6 kPa / ~0.5 - 1.5 kPa	Yes	Yes
3 kPa / 2 kPa	Yes	Not specified
100 kPa / step not specified	n/a	Not specified
50 kPa / 50 kPa	Yes	Not specified

10.1 - 101.3 kPa / 10 kPa	Yes	Yes
0.002 - 0.4 kPa / 0.002 - 0.4 kPa	no	No, larger steps used
101.3 kPa / 101.3 kPa	No	No, larger steps used
(0 - 0.95P/P0) / (0.05P/P0) P0 = 2.34 kPa	Yes	Yes
30.4 kPa / step not specified	n/a	No / step not specified
Not specified	n/a	Not specified
0 - 2.8 kPa / ~ 0.1 kPa	No	Yes
0 - 10 kPa / 0.09 - 5 kPa	No	Yes
(0.1P/P0) / step not specified P0 not specified	n/a	Not specified

0.8 - 7 kPa / 0.5 - 2 kPa	No	Yes
0 - 90 kPa / ~1 kPa	No	Yes
0 - ~20 kPa / ~0.1 - 7 kPa	No	Yes
3 - 10 kPa / 3 - 10 kPa	Yes	Yes
1.5 kPa / 1.5 kPa	n/a	n/a
0 - 37 kPa / step not specified	Yes	Yes
Not specified	n/a	Yes
100 kPa / step not specified	n/a	n/a
~10 kPa / ~10kPa	Yes	Yes

~10 kPa / ~10kPa	Yes	Yes
101.3 kPa / 101.3 kPa	Yes	No, larger steps used
0 - 5.53 kPa / 2 kPa	No	No, larger steps used
0 - 81.1 kPa / 6.7 - 8 kPa	Yes	Yes
(0 - ~0.95P/P0) / (~0.01 - 0.1P/P0) P0 not specified	No	Yes
Not specified	n/a	n/a
Not specified	n/a	Not specified
0 - 100kPa / 0.1 - 10 kPa	No	Yes
(0.2910 - 0.5295P/P0) / (0.05P/P0) P0 not specified	No	Yes

(0.23 - 0.93 P/P0) / step not specified P0 not specified	n/a	Not specified
0.3 kPa / 0.3 kPa	No	Yes

Sample mass, mg	Sample configured for isothermality?	Isotherm linearity confirmed by adsorption and desorption? Yes, No, Hysteresis in isotherm, n/a = linearity is not an assumption of the model
Not specified	Not specified	n/a
Not specified	Not specified	No
500	Not specified	No
60, 100, 140 (CMS); 64, 96, 125 (5A)	Not specified	No
Not specified	Not specified	No
300	Not specified	n/a
10	Not specified	n/a

100	Not specified	No
~100	Not specified	No
100	Not specified	n/a
28, 50	Not specified	No
80	Not specified	No
500	Not specified	No
~100	Not specified	No
~170	Not specified	No
~50	Not specified	No

2146.3	Not specified	n/a
2146 (13X); 2322(5A)	Not specified	n/a
70	Not specified	n/a
~450	Not specified	No
100	Not specified	No
50	Not specified	n/a
Not specified	Not specified	n/a
60 - 90	Not specified	n/a
50	Not specified	No

Not specified	Not specified	No
75	Not specified	No
Not specified	Not specified	No
6 - 8	6-8mg sample to alleviate the problem caused by the diffusion resistance associated with the adsorbent packing	No
50, 1000	Not specified	n/a
~50	Not specified	n/a
Not specified	Not specified	n/a
4588	Not specified	No
47	Not specified	No

44.8	Not specified	No
Not specified	Not specified	No
50 - 60	Not specified	No
100	Not specified	No
~2000	Not specified	No
Not specified	Not specified	No
77	Not specified	No
1/3–1/2 volume of sample container	Not specified	No
5 - 10	Not specified	n/a

100	Not specified	Hysteresis in isotherm
100	Not specified	No
3000 - 4000	Not specified	No
500	Not specified	n/a
Not specified	Not specified	n/a
Not specified	Not specified	n/a
50 - 60	Not specified	No
25	Not specified	No
200	Not specified	n/a

2000 - 3000	Not specified	No
~100	Not specified	n/a
Not specified	Not specified	No
15, 30	Not specified	No
1/3–1/2 volume of sample container	Not specified	n/a
400	Layers of 30 µm thickness	Yes
100	Not specified	n/a
500 - 1000	Not specified	n/a
Not specified	Not specified	n/a

10 - 20	Not specified	No
Not specified	Not specified	No
130	Spread as a thin layer	No
3 - 5	Not specified	n/a
50	Not specified	No
Not specified	Not specified	No
~100	Not specified	n/a
Not specified	Not specified	n/a
Not specified	Not specified	No

22 - 25	Not specified	Yes
Not specified	Not specified	n/a
~100	Not specified	Hysteresis in isotherm
Not specified	Not specified	No
~71	Not specified	n/a
126, 60	Scattered in glass wool	No
~126	Not specified	No
~50	Not specified	n/a
3600	Not specified	No

Not specified	Not specified	No
200 - 300	Not specified	No
100	Not specified	No
~50	Not specified	No
100	Not specified	n/a
~10	A very small thickness of the zeolite layer	No
Not specified	Not specified	No
500	Not specified	No
~100	Not specified	No

Not specified	Not specified	No
~15	Not specified	No

Experimental signal shown? Me = M at equilibrium; qe = q at equilibrium	Model fitting shown?	Good fitting? Yes, No and type of the poor fitting (see main paper), n/a = no fitting shown
M(t)/Me vs t	Yes	Yes
(1) q(t) vs t (2) ln(1-M(t)/Me) vs t (3) M(t)/Me vs t	Yes	No, Type 4
q(t) vs t	No	n/a
(1) M(t) vs t (2) M(t)/Me vs t	Yes	No, Type 1 & 4
q(t) vs t	No for diffusion model	n/a for diffusion model
(1) q(t) vs t (2) ln(qe-q(t)) vs t (3) q(t) vs t^(1/2)	Yes	Yes
q(t) vs t	Yes	Yes

M(t)/Me vs t	Yes	Yes
(1) q(t) vs t (2) M(t)/Me vs t^(1/2)	Yes	Yes
No	No	n/a
M(t)/Me vs t^(1/2)	Yes	Yes
q(t) vs t	No for diffusion model	n/a for diffusion model
1- M(t)/Me vs t	Yes	Yes
M%(t) vs t	No	n/a
(1) q(t) vs t (2) M(t)/Me vs t^(1/2)	Yes	Yes
q(t) vs t	Yes	Yes

q(t) vs t	Yes	No, Type 4
q(t) vs t	Yes	No, Type 4
q(t) vs t	Yes	Yes
q(t) vs t	No	n/a
(1) q(t) vs t (2) q(t)/qe vs t^(1/2)	Yes	No, Type 3
q(t) vs t	No	n/a
M(t)/Me vs t	Yes	Yes
(1) q(t) vs t (2) ln(qe-q(t)) vs t (3) q(t)/t vs t	Yes	Yes
(1) q(t) vs t (2) M(t)/Me vs t	Yes	Yes

M(t)/Me vs t	No	n/a
M(t)/Me vs t	Yes	Yes
M(t)/Me vs t	Yes	Yes
(1) q(t) vs t (2) B(q(t)/qe) vs t (3) ln(1-q(t)/qe) vs t (4) q(t) vs t^(1/2)	No for diffusion model	n/a for diffusion model
M(t)/Me vs t	Yes	Yes
M(t)/Me vs t	Yes	Yes
M(t)/Me vs t	Yes	Yes
(Me-M(t))/Me vs t	Yes	Yes
(1) q(t) vs t (2) ln(1-M(t)/Me) vs t	Yes	Yes

q(t) vs t	No	n/a
q(t) vs t	No	n/a
wt%(t) vs t	Yes	Yes
(1)ln(1-M(t)/Me) vs t (2) M(t)/Me vs t	Yes	Yes
M(t)/Me vs t^(1/2)	Yes	Yes
(1) q(t) vs t (2) q(t) vs t^(1/2)	Yes	Yes
(1) q(t) vs t (2) ln(1-M(t)/Me) vs t (3) M(t)/Me vs t	Yes	Yes
(1) q(t) vs t (2) M(t)/Me vs t^(1/2) (3) M(t)/Me vs t	Yes	Yes
q(t) vs t^(1/2)	Yes	Yes

(1) q(t) vs t (2) M(t)/Me vs t	No	n/a
M(t)/Me vs t^(1/2)	No	n/a
q(t) vs t	No	n/a
(1) q(t) vs t (2) -ln(Me-M(t))/Me vs t	Yes	Yes
q(t) vs t	No	n/a
M(t)/Me vs t	Yes	Yes
(1) M(t)/Me vs t^(1/2) (2) M(t)/Me vs t	Yes	Yes
(1) M(t)/Me vs t^(1/2) (2) M(t)/Me vs t	Yes	Yes
(1) q(t) vs t (2) ln(qe-q(t))/qe vs t	Yes	Yes

(1) M(t)/Me vs t^(1/2) (2) (Me-M(t))/Me vs t	Yes	Yes
(1) q(t) vs t (2) ln(1-M(t)/Me) vs t	No	n/a
M(t)/Me vs t	Yes	Yes
(1) M(t)/Me vs t (2) ln(1-M(t)/Me) vs t	No	n/a
(1) q(t) vs t (2) ln(qe-q(t))/qe vs t	Yes	Yes
(1) M(t)/Me vs t (2) 1-M(t)/Me vs t	Yes	Yes
M(t)/Me vs t	Yes	Yes
(1) q(t) vs t (2) M(t)/Me vs t	Yes	Yes
M(t)/Me vs t	Yes	Yes

(1) q(t) vs t (2) q(t)/qe vs t^(1/2) (3) M(t)/Me vs t	Yes	Yes
(1) q(t) vs t (2) 1-M(t)/Me vs t	Yes	No, Type 1
1- M(t)/Me vs t	Yes	Yes
M(t) vs t	Yes	Yes
q(t) vs t	No	n/a
No	No	n/a
M(t)/Me vs t	Yes	Yes
M(t)/Me vs t	Yes	Yes
M(t)/Me vs t	No	n/a

(1) q(t) vs t (2) q(t)/qe vs t^(1/2)	Yes	Yes
M(t)/Me vs t	Yes	Yes
M(t)/Me vs t	Yes	Yes
M(t)/Me vs t	Yes	Yes
(1) q(t) vs t (2) M(t)/Me vs t^(1/2)	Yes	Yes
M(t)/Me vs t^(1/2)	Yes	Yes
M(t)/Me vs t^(1/2)	No	n/a
(1) q(t) vs t (2) ln(1-M(t)/Me) vs t	No	n/a
M(t)/Me vs t	Yes	Yes

M(t)/Me vs t	Yes	Yes
(1) q(t) vs t (2) M(t)/Me vs t	Yes	Yes
M(t)/Me vs t	Yes	No, Type 1
(1) q(t) vs t (2) 1-M(t)/Me vs t (3) M(t)/Me vs t	Yes	Yes
M(t)/Me vs t	Yes	Yes
No	No	n/a
M(t)/Me vs t	Yes	Yes
(1)ln(1-M(t)/Me) vs t (2) M(t)/Me vs t	Yes	Yes
(1) ln(1-M(t)/Me) vs t (2) M(t)/Me vs t	Yes	Yes

q(t) vs t	Yes	Yes
M(t)/Me vs t	Yes	Yes

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