# A Brief Bibliography of Publications about the Kepler Conjecture

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13 June 2024
Version 1.62

## Title word cross-reference

1 [ZCT+14]. 18 [Tal99]. 2 [IN07, ZCT+14]. 24 [BB16, CKM+16]. 3 [IN07, LZLX10]. 8 [BB16, Via16]. $E_8$ [CKM+19]. $N$ [CGV+03, CF10, Hau91, Hau95]. $R^d$ [PKC16]. $S$ [Kun92].

**-Cube** [Hau95, Hau91]. **-dimensional** [ZCT+14]. **-space** [ZCT+14]. **-units** [Kun92].

**12th** [AL01]. **15th** [MS02]. **16** [Hsi95]. **17th** [SBG04]. **18th** [HM05]. **1900** [Hil00, Hil01].

**2002** [MS02, STDH02]. **2004** [ACM04]. **2020** [Ano20b]. **24-dimensional** [Kla19].

**3-dimensional** [Oes00]. **3-polytopes** [BH00]. **36th** [ACM04]. **3DRSP**

[BC22].

**4th** [HY14, IEE07].

**6th** [BR07].

**82** [TS10b]. **88** [Mus98].

**95g** [Hsi95].

**abstract** [Tam93]. **accessible** [BDH+05]. **according** [Oes00]. **achievement** [BCR83]. **action** [Hsi01]. **addition** [TUS06]. **ADG** [BR07]. **adjustment** [LTX+13]. **Advances** [HSP00, MS02]. **advancing** [LTÜ00]. **aggregates** [ZRD+14]. **AI** [Bai24, MS02]. **algebra** [Gar01a]. **algebraic** [Kun92]. **Algorithm** [Zin94, DFM17, DTSC04, HMS16, LRCG16, MT13, Zau16]. **Algorithmic** [DTS05a]. **Algorithms** [CHH+01, SE92, SBH07, Tam93, Hal03, Kao08, ZCT+14]. **along** [RT98]. **Amorphous** [PZ06, RT98]. **Amsterdam** [STDH02]. **Analysis** [AGM08, CJS92, BCR83, LJ13]. **analytic** [BDH+05, DS95]. **Analytical** [TJ09a]. **Analyzing** [SBH07]. **Annual** [ACM04, ACM01, AL01]. **aperiodic** [SMKGS23]. **Apollonian** [FS11, GLM+03, HKRS23, Hol21, Kas43, Nor06, SMF23, Tom20]. **Appear** [Hol21]. **Appl** [Mus98]. **Application** [Epp97, Zau16]. **applications** [CHH+01, Per02, DTS05b]. **Approach** [Cor02, Zon22, Ano97, Gav08, LTX+13, Mus97, Mus98, Mus00, RZ12, ZSRB07]. **Approximation** [MPS+16]. **April** [STDH02]. **Arbitrary** [PKC16, LRCG16]. **Archimedean** [TJ09c, TJ09b, TJ10a]. **Area** [MC06, AF06, BDH+05, CF10]. **arising** [Hal03]. **arithmeticity** [BKK24]. **Arrangements** [Kup07]. **Arrow** [DFM17]. **Arrow-Hurwicz** [DFM17]. **article** [Hsi95]. **artificial** [MS02]. **ARVO** [BDH+05]. **Assisted** [Max91]. **Asymmetric** [CM00]. **Asymptotic** [NÖadS99]. **Athermal** [SAF10]. **Atlanta** [Bil85]. **August** [BR07, FS07, HY14, HM05]. **Australia** [MS02]. **Australian** [MS02]. **Automated** [KU13, Wan99, BR07, FS07]. **Automating** [Edw16]. **awarded** [Ano20a]. **Aware** [YLG+14]. **Axis** [Wan00].

**back** [Jos12]. **Ball** [Tót53, Tót72]. **Balls** [Kup07]. **Based** [Cor02, LHXG23, BC22, Gav08, LTX+13, LJ13]. **basic** [LZLX10, ON09]. **batches** [JZ23]. **Bath** [CAL+13]. **be** [NIS14]. **beat** [Sah06]. **Behavior** [NÖadS99, KGT15]. **Belgium** [SBH07]. **Below** [CM00]. **Bernal** [TS10b, TS10a]. **Berwick** [Ano20a]. **Best** [CS95, Pit19]. **Bestimmung** [MPS02]. **Beweis** [Hen98]. **beyond** [TS10a, TS10b]. **bin** [JZ23, ZCT+14]. **binary** [Tom20]. **Biting** [LTÜ00]. **Blueprint** [Hal12]. **bodies** [KK90, Min04, Tót08]. **Boltzmann** [KGT15]. **Book** [Mor05, Bra95, Gar01a]. **Boolean** [Hau91, Hau95]. **Bound** [CM00, Mud93, AF06, GEK11, Sah06].

**Boundaries** [ABGGN16]. **Boundary** [Zin94]. **Bounded** [Hau95, Kel06, Hau91, HMS16, Kel04, ZCT+14]. **Bounds** [BN00, BN02, BN05, CE03, Hal06c, Kel06, Lag02, MVG05, TS06, AGMW13, BLR10, CT22, Hen05, Kel04, Obu05]. **Box** [Cor02]. **branch** [RT98]. **Breakthrough** [Coh17]. **Brussels** [SBH07]. **Bubble** [GSWD18]. **bubbles** [CGV+03, CF10]. **Build** [Cep23]. **bullets** [SvdW53].

**C** [Hsi95, Lag11b, Oes00, TL06]. **calculations** [CGV+03]. **Calculemus** [CAL+13]. **Canberra** [MS02]. **Cannonballs** [Hal00]. **Carroll** [Fea10]. **cases** [Hal06b]. **Cavity** [RZ12]. **centered** [GJT12, Kun92]. **cercles** [Ber93]. **Certification** [AGMW13]. **Characterization** [MPS02]. **Chervonenkis** [Hau91, Hau95]. **Chicago** [ACM04]. **CICM** [CAL+13]. **Circle** [BE00, BH01, DS95, Epp97, FS11, Hol21, Kel06, MC06, MPS+16, Moh93, NÖadS99, Tót99, YLG+14, ABGGN16, BS13, BS08, GLM+03, HKRS23, HMS16, Kel04, LTX+13, LMX19, Mar07, Nor06, Per02, Roh11, Tom20, Ber93]. **Circles** [LHXG23, SMF23, CK91, SHWP09]. **City** [SBG04]. **classic** [Gar01a]. **classification** [TS01]. **cleavage** [ZSRB07]. **Close** [Zin94, BCR83, JT85]. **closest** [Mar11, Min04]. **clumping** [NIS14]. **clusters** [VG01]. **CMAC** [Cor02]. **CMAC-Based** [Cor02]. **Coarse** [KGT15]. **Coarse-** [KGT15]. **code** [BC22]. **codes** [HST10, LS71, Slo81, Tho79, Tho83]. **Coding** [CM00]. **Collage** [YLG+14]. **collective** [LJ13]. **collision** [DTS05a, DTS05b]. **collision-driven** [DTS05a, DTS05b]. **colossal** [Gar01a]. **Combinatorial** [Cor01, AL01]. **combinatorics** [Sch79]. **Compact** [BW01]. **Complete** [Cep23, Tan79]. **completed** [BB14]. **Comput** [Mus98]. **Computation** [Bai24]. **Computational** [ACM01, STDH02, Gav08, ZSRB07]. **Computations** [Ano99]. **Computer** [Bil85, Gar12, Hen98, HZ00, JT85, Max91, Zon22, CAL+13, Hal02]. **Computing** [ACM04, IEE07, BDH+05]. **concave** [Per02]. **Conceptual** [Coh17]. **concerning** [Rén58]. **Conditions** [Zin94, Mát93]. **Conference** [FS07, HY14, MS02, STDH02, HM05, SBG04]. **configurations** [Mar07]. **confined** [CF10]. **Conformally** [BH01]. **Congress** [FVJT10, Hil00, Hil01]. **Congruent** [Kup07, CHH+01, Gro62, Min04]. **Conjectural** [TS06]. **Conjecture** [Ano99, Hal10, Hen98, Hsi95, TL06, AH75, BCR83, BB14, Bai24, Bez97, BS70, Hal01a, HM10, HAB+15, HZ00, Hsi01, Mar11, Szp03c, Bez13, HKRS23, Hal94, Hal98, Hal02, Hal03, Hal04, Hal05, HF06, Hal06a, HHM+10, HF11, Hsi93b, Hsi93c, Lag02, Lag11b, Lag11a, Mus00, Szp03a, Mor05]. **Constructions** [TJ09a, TJ10b]. **Container** [Kup07]. **containers** [Sch06]. **containing** [Bra95, MPS02]. **Content** [YLG+14]. **Content-Aware** [YLG+14]. **convergence** [LJ13]. **Convex** [GW93, Gru07, Zon06, KK90, TK93, Tót08, ZD96]. **Cores** [BW01]. **cornered** [Kep66]. **correcting** [LS71, Tho79, Tho83]. **Correction** [BN05]. **correlated** [Zau16]. **correlations** [JT11]. **Corrigendum** [TJ10a]. **Cover** [JS00]. **Covering** [B¨04, CT06, Cor01, TGW89, Tót08, Rog64, Rog68, Sch79, TK93]. **Coxeter**

[MPS02]. **Coxetersche** [MPS02]. **CPM** [AL01]. **Craig** [Che13]. **created** [TJ12]. **creating** [Zau16]. **crystal** [DSCT04, Gar12, Hsi01]. **crystal-growth** [Gar12]. **crystalline** [CEG10, HAEK+09]. **crystallographic** [CRCS20]. **crystals** [Gar12]. **Cube** [Cep23, Gen04, Hau95, Zon06, Hau91]. **cubes** [JZ23]. **cubic** [GJT12]. **cubooctahedra** [Zon13]. **Current** [Mar85].

**D** [IN07, LZLX10]. **Damped** [DFM17]. **d'après** [Oes00]. **December** [MS02]. **decomposition** [BCR83]. **deduction** [BR07]. **deformable** [CF10]. **deformations** [BLR10]. **Delaunay** [AGM08]. **delights** [Fea10]. **Delone** [MVG05]. **Dense** [AM07, Che08b, CEG10, Gen04, Hal12, KEG09, KEG10, TJ09a, TJ09c, TJ09b, DSCT04, Hsi01, TJ10b, TJ12, TJ10a]. **Densely** [Ste99, HAEK+09]. **Densest** [BH00, BR03, Zon22, Gro62, Hoy70, MT13]. **Densité** [Oes00]. **densities** [LZLX10, Zon13]. **Density** [BKM91, Mud93, MVG05, TS06, AH75, GEK11, Hal93, HST10, Lag02, NIS14, Oes00, SST08, Sch00, Sol67, ZRD+14]. **deposits** [Tót53, Tót72]. **Deriving** [AMB11]. **design** [XLNQ20]. **Designing** [SBH07]. **Designs** [He17, He19]. **Detailed** [Hal06c]. **details** [DTS05a]. **Determine** [Zon22]. **diagram** [Gav08, HAEG11]. **Diagrams** [IEE07]. **dichteste** [Gro62, Min04]. **Dilemma** [Bun06]. **Dimension** [Hau95, CKM+16, Hau91, Oes00, PZ06, Via16]. **dimensional** [AH75, Ano97, Kla19, Lee67a, Lee69, Mus97, Mus98, Oes00, Rén58, SDST06, ZCT+14, dCIDV24, vMFC09]. **Dimensions** [CS95, Max91, BB16, BS08, BC22, CGV+03, Hal93, KOT22, SST08, TUS06]. **dimer** [CEG10]. **disasters** [Lep97]. **Discrete** [Zon06, DS95, Gru07, ZD96]. **discs** [Tan79]. **Disordered** [AM07, HAEK+09]. **display** [TKUG13]. **Distributional** [BS01]. **DML** [CAL+13]. **dodecahedral** [Bez97, HM10]. **Does** [Szp03b]. **domains** [LRCG16]. **Double** [KK90]. **Double-lattice** [KK90]. **Doyle** [BH01]. **Dr.** [Ano20a]. **drawings** [Tam93]. **dreizehn** [SvdW53]. **driven** [DTS05a, DTS05b]. **Dual** [CT22]. **Dutch** [Str28]. **dynamics** [Bra95, DTS05a, DTS05b, LJ13]. **dynamics-based** [LJ13].

**Ebene** [Tót53, Tót72]. **edition** [Bra95]. **editor** [TL06]. **Effective** [SBH07]. **Efficient** [MT13, LRCG16]. **Eigenvalue** [BLR10, Kel06, Kel04]. **eigenvalues** [KOT22]. **eight** [KOT22, Kla19]. **eight-** [Kla19]. **Einstein** [Ano23]. **elementary** [GJT12]. **Ellipses** [SMF23, DTS05b, DCST07]. **ellipsoid** [DSCT04]. **ellipsoids** [DTS05b, DCST07]. **Elusive** [Ano23]. **Embryonic** [ZSRB07]. **empilements** [Oes00]. **Encyclopedia** [Kao08]. **Engineering** [IEE07, SBH07]. **English** [Bra95]. **enthalten** [MPS02]. **Enumerating** [HC16]. **Equal** [BR03, Gen04, LHXG23, CF10, JT85, TJ12]. **equations** [BDH+05]. **Equidecomposable** [Hal07]. **Erratum** [Ano97, Mus98]. **Error** [CM00, LS71, Tho79, Tho83]. **error-correcting** [LS71, Tho79, Tho83]. **Estimates** [SST08, Tom20]. **Euclidean** [Bli99, Har13, SDST06, TUS06]. **Evolution** [Cor02]. **Exact** [TJ10b]. **Excluded** [MT02a, BDH+05]. **Experiments** [FS11, DS95, XLNQ20]. **Extremal** [Hal06b].

**face** [GJT12]. **face-centered-cubic** [GJT12]. **false** [HKRS23]. **Families** [GJT12]. **Family** [TJ09a, Ano97, Mus97, Mus98, TJ10b]. **famous** [Cas01]. **Faster** [Epp97]. **FCC** [BW01, EIH18, Sch00]. **feedback** [Sah06]. **Ferguson** [TL06, Lag11b, Oes00, VG01]. **field** [Zau16]. **fill** [Sen81]. **Filling** [PAHG12, Str28, Rén58]. **fine** [KGT15]. **fine-grid** [KGT15]. **Finite** [AMB11, BW01, BS01, BH98, BBC98, B¨04, PKC16, TGW89, Lep97]. **finiten** [Lep97]. **first** [Bra95]. **Five** [Lee67a, Cas01]. **Flat** [KOT22]. **flows** [BLR10]. **fluids** [ZBT+99]. **Flyspeck** [NBS06, Ada14, NBS07, ON09, TKUG13]. **Flyspecking** [Ada14]. **Foams** [Kla00]. **force** [Zau16]. **foreword** [TL06]. **Formal** [BB14, Hal08, Hal12, Har08, TKUG13, HAB+15]. **Formalizing** [Hal04]. **Formally** [AH14]. **formation** [Hsi01]. **forms** [CT22, Tom20]. **formulas** [CKM+19]. **formulation** [HF06]. **Fortran** [BDH+05]. **four** [vMFC09]. **four-dimensional** [vMFC09]. **Free** [MT02a]. **French** [Ber93, Oes00]. **frictionless** [SAF10]. **Frobenius** [Per02]. **front** [LTÜ00]. **frustration** [vMFC09]. **Function** [Kla19, DS95]. **Functions** [HSP00, AGMW13, Ano97, Kla19, Mus97, Mus98]. **future** [Bai24].

**game** [Gar01a]. **garden** [Fea10]. **Gardner** [Fea10]. **gehalten** [Hil00, Hil01]. **Generalization** [BH01, Che13]. **Generalized** [Gav08]. **generate** [LRCG16, MT13]. **generation** [TS01]. **generative** [Hal01b]. **Generators** [Mar85]. **Genus** [Kel06, Kel04]. **Geometrical** [vMFC09, HL03]. **Geometry** [ACM01, GW93, Zon06, dGMMD14, BR07, Gar01a, Gav08, Gru07, Hsi93a, Hsi94, ZD96]. **geometry-based** [Gav08]. **Georgia** [Bil85]. **Geräumigkeitsbedingungen** [Mát93]. **German** [Gar12, Gro62, Hen98, HZ00, Hil00, Hil01, Lep97, Mát93, Min04, MPS02, SvdW53, Tót53, Tót72]. **gitterförmige** [Gro62, Min04]. **Glamorgan** [IEE07]. **Global** [HKRS23]. **Globally** [PKC16]. **golden** [HST10]. **Graphs** [BS01, JS00, Kel06, ABGGN16, Hal06d, Kel04, NBS06, NBS07]. **Grassmann** [BN00, BN02, BN05, Hen05]. **greatest** [Szp03a]. **grid** [KGT15]. **Groups** [CS+88, BKK24, CS+93, CS99, MPS02, Szi93, Tho79, Tho83]. **growth** [Gar12]. **Guest** [TL06].

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**Holes** [MVG05]. **honeycomb** [Hal01a]. **Honeycombs** [Hal00, Kla00]. **Hurwicz** [DFM17]. **Hydrophobic** [BW01]. **hyper** [Ano97, Mus97, Mus98]. **Hyperbolic** [BR03]. **hyperspheres** [AW10, SDST06]. **hyperuniform** [JT11].

**ICCS** [STDH02]. **ICMS** [FVJT10, HY14]. **identical** [CGV+03]. **II** [DTS05b, Hal97a, Hal97c, ON09]. **III** [Hal06b, STDH02]. **IJCAR** [FS07]. **Illinois** [ACM04]. **im** [Hen98, HZ00, Tót53, Tót72]. **Implementing** [SBH07]. **impletione** [Str28]. **independent** [ZRD+14]. **inequalities** [Bez97]. **infinite** [Lep97]. **infiniten** [Lep97]. **infinity** [Gar01a]. **Integral** [FS11, Nor06]. **intelligence** [Gav08, MS02]. **Intelligencer** [Hsi95]. **Intelligent** [CAL+13]. **interdimensional** [Ano97, Mus97, Mus98]. **Interface** [Bil85]. **International** [FVJT10, FS07, HY14, IEE07, STDH02, SBH07, BR07, HM05, SBG04, Hil00, Hil01]. **internationalen** [Hil00, Hil01]. **interpolation** [CKM+19]. **Interval** [Ano99, Mar07]. **Introduction** [MT02b]. **Isabelle** [Obu05]. **Isabelle/HOL** [Obu05]. **Isoperimetric** [Bez97]. **isostaticity** [JT11]. **Israel** [AL01]. **ISVD** [IEE07]. **Iterations** [Per02]. **IV** [Hal06c].

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**Kepler** [Hsi95, TS10b, TL06, Ano99, BB14, Bai24, Bez13, Bra95, Gar12, Hal94, Hal98, Hal02, Hal03, Hal04, Hal05, HF06, Hal06a, Hal10, HHM+10, HF11, HAB+15, HL03, Hen98, HZ00, Hsi93b, Hsi93c, Hsi01, HS14, Jos12, Lag02, Lag11b, Lag11a, Mar11, Mus00, Szp03c, Szp03a, TS10a, Mor05]. **Kepler-Vermutung** [HZ00]. **Keplerschen** [Hen98]. **key** [Bra95]. **kissing** [Tal99, Zon96]. **Kleinian** [BKK24]. **knowledge** [LTX+13]. **knowledge-based** [LTX+13]. **Kobe** [FVJT10]. **Kongreß** [Hil00, Hil01]. **kongruenter** [Gro62, Min04]. **Korea** [HY14]. **Körper** [Min04]. **Kristalle** [Gar12]. **Kristallwachstum** [Gar12]. **Kugeln** [Tót53, Tót72, Hen98, HZ00, SvdW53]. **Kugelpackungen** [MPS02, Lep97]. **Kugelsysteme** [Mát93].

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**Longstanding** [Ano23]. **lot** [AW10]. **Low** [CS95]. **Lower** [MVG05, TS06, AF06].

**M** [Fea10]. **Magic** [Kla19]. **Manifold** [BN05, BN02]. **Manifolds** [BN00, Hen05]. **many** [NIS14]. **maps** [Per02]. **March** [Bil85]. **Marsaglia** [AW10]. **Massachusetts** [ACM01]. **matching** [AL01]. **Math** [Ano23, Kla19, Mus98, Szp03a]. **Math.** [Hsi95]. **Mathematical** [Bun06, Cas01, Coh09, FVJT10, Hil00, Hil01, Hil02, Hil00, Fea10, Bra95, FVJT10, HY14]. **Mathematicians** [Cep23, Hil00, Hil01, Kla19]. **Mathematics** [Dav05, Pit19, Szp03b, AH14, Avi19, Bai24, CAL$^+$13, Gar01a, TKUG13, Gar12]. **Mathematik** [Gar12]. **Mathematiker** [Hil00, Hil01]. **Mathematiker-Kongreß** [Hil00, Hil01]. **Mathematische** [Hil00, Hil01]. **Matlab** [BC22]. **Matlab-based** [BC22]. **Matrix** [HSP00]. **Max** [Wan00]. **Maximal** [Oes00, HST10]. **maximale** [Oes00]. **Maximally** [JT11]. **Maximum** [BK10, BKM91, LZLX10]. **mean** [XGW13]. **meaning** [HL03]. **mechanization** [Avi19]. **Medford** [ACM01]. **Medial** [Wan00]. **Meets** [Rad04, LTÜ00]. **Meshing** [BE00]. **metastable** [RT98]. **method** [AGMW13, LJ13]. **methods** [Mar07]. **metrical** [BLR10]. **Min** [Wan00]. **Min-Max** [Wan00]. **minds** [Szp03a]. **Minimal** [CGV$^+$03, CF10]. **Minimizing** [BS08]. **minimum** [BK10]. **Minkowski** [Tót99]. **mixtures** [XLNQ20]. **MKM** [CAL$^+$13]. **Mod** [TS10b]. **modeling** [ZSRB07]. **modular** [CT22]. **molecular** [DTS05a, DTS05b]. **monotile** [SMKGS23]. **most** [Cas01]. **mountaintops** [Cas01]. **MR1281754** [Hsi95]. **MRT** [KGT15]. **MRT/TRT** [KGT15]. **Multi** [IN07]. **Multi-sphere** [IN07]. **Multiple** [Bli99]. **Multiplicity** [TS01]. **multiscale** [Zau16]. **myriad** [Kla19]. **Mysteries** [LZ12].

**Natural** [Bra95]. **Neighbor** [DTS05a, DTS05b]. **Netherlands** [STDH02]. **Networks** [Cor02]. **Neural** [Cor02]. **News** [Edw16]. **Newton** [Bra95, HL03]. **Nive** [Kep11]. **no** [Hsi95]. **non** [AGMW13, Kas43, Lee67a, Lee69]. **non-Apollonian** [Kas43]. **non-lattice** [Lee67a, Lee69]. **non-linear** [AGMW13]. **Nonobtuse** [Epp97]. **nonspherical** [DTS05a, DTS05b, DCST07, TJ12]. **Note** [Kas43, TS10b]. **Notes** [Lee67b]. **Number** [Mar85, Gar01a, GLM$^+$03, Tal99]. **Numbers** [Hau95, Hau91, Tom20, Zon96]. **Numerical** [AH75, Gar12, KGT15]. **numerische** [Gar12].

**object** [BS08]. **objects** [LZLX10]. **octahedra** [GEK11]. **Oded** [Roh11]. **oldest** [Szp03a]. **One** [CM00, Kla19, Bra95, Rén58, Szp03a]. **one-dimensional** [Rén58]. **Online** [LMX19, ZCT$^+$14, HMS16]. **Optimal** [CM00, JST09, Kup07, NÖadS99, PAHG12, Szi93, TS06, Wan00, ZBT$^+$99, CK91, EDM09, MPS02, SST08]. **optimalen** [MPS02]. **Optimality** [EIH18, CKM$^+$19, Mar07]. **Optimally** [BW01]. **Optimization** [Cor01, LTX$^+$13]. **Optimized** [PKC16]. **Orange** [Cor02]. **Orbits** [Rad04].

**Orbs** [Rad04]. **Order** [THBM07, HM05, SBG04]. **orders** [She19]. **Organizing** [TJ12]. **orthogonal** [Tam93]. **Other** [MPS+16, Gar01a, Moh93]. **overlapping** [BDH+05]. **overview** [Hal06a]. **Oxford** [HM05].

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